

THE NORWEGIAN  
NORTH POLAR  
EXPEDITION

1893—1896

SCIENTIFIC RESULTS

EDITED BY

FRIDTJOF NANSEN.

VOL. VI.



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Vol. V of this Report has not yet been finished and will be published later. The volume will contain three memoirs: by Dr. V. WALFRID EKMAN on "Deadwater"; by Mr. O. B. BØGGILD on "the Bottom-Deposits of the North Polar Sea", and a third paper on the animal organisms living in the fresh-water ponds of the polar ice.







THE NORWEGIAN  
NORTH POLAR EXPEDITION 1893—1896  
SCIENTIFIC RESULTS

VOLUME VI.







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NORTH  
POLAR EXPEDITION

1893—1896

SCIENTIFIC RESULTS

EDITED BY

FRIDTJOF NANSEN

VOLUME VI

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PUBLISHED BY THE FRIDTJOF NANSEN FUND  
FOR THE ADVANCEMENT OF SCIENCE.

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## PREFACE TO VOL. VI.

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**T**he history of our expedition is in several respects intimately connected with the name of my good friend, Prof. H. MOHN. As stated in the Introduction to my popular account of the Expedition ("Farthest North") it was after reading a newspaper article by Prof. MOHN (in 1884) on the Jeanette relics that I got the first suggestion towards the planning of the expedition. MOHN was one of the few who always believed in the practicability of this plan. He was one of the last friends to bid us farewell when we left Vardø in 1893, and by a strange coincidence he was also the first friend JOHANSEN and I met, when three years later we again went ashore, also at Vardø.

This important volume is entirely MOHN's work, and in now laying it before the scientific world I feel I could find no better opportunity of according him my special and cordial thanks for the valuable assistance he rendered the expedition in this and in other ways.

At my request Professor H. MOHN kindly took charge of the meteorological equipment of the expedition from the very beginning. In concert with me, he laid the plan of the meteorological work to be carried out during the voyage; he ordered the instruments and tested them, and he gave Capt. SCOTT-HANSEN the necessary instructions for making the observations, and pointed out how the whole meteorological work should be superintended.

After the return of the expedition, he did me the great favour of undertaking to work up the voluminous and important meteorological material col-

lected during the three years of the expedition. The results of his work, which has taken several years of his valuable time, are given in the present volume. I trust, however, that I do not go too far when I say that the contents of this volume will in several respects be an important step forward in our knowledge of the physical conditions of the atmosphere of our globe. The observations were taken in a hitherto entirely unknown region where the conditions are extreme, but they are at the same time exceptionally uniform, as we were moving the whole time slowly across an extensive and entirely ice-covered sea. I believe also that this volume will prove that the working up of our meteorological material could not easily have been placed in better hands.

Captain SIGURD SCOTT-HANSEN took charge of, and superintended, the meteorological work of the expedition during the whole voyage. I know that Prof. MOHN, who has now followed this work from hour to hour and day to day, agrees with me that it has been carried out during the long and often hard time with an endurance and care which is more than admirable; in spite of the often very difficult and trying circumstances, there is hardly a gap in the series of observations. I have on two previous occasions in this report (Prefaces to Vols. I and II) gratefully acknowledged Scott-Hansen's valuable services to the expedition; I could not send out this volume containing his many important observations without thanking him once more for his faithful work during the long polar day and the long, cold polar night.

I also feel impelled to thank his two assistants, Captain HJALMAR JOHANSEN, and Mr. BERNHARD NORDAHL, as well as the other members of the expedition, for their share in the meteorological work.

*Polhøiden, Lysaker, 2<sup>nd</sup> February, 1905.*

FRIDTJOF NANSEN.



**XVII.**

**METEOROLOGY**

BY

**H. MOHN**

WITH TWENTY PLATES.





In closing the working up of the meteorological observations made on the Norwegian Polar Expedition 1893 to 1896, I wish to here record my thanks to Professor Nansen for intrusting me with this work, and for his practical aid in carrying it out; to Capt. Scott-Hansen for his valuable information concerning the observations themselves; to Miss Louise Mohn, who made the main part of the computations; to Mr. A. Graarud, first meteorologist in the Norwegian Meteorological Institute, who made the harmonic-analysis calculations; and to Miss J. Muir, who has revised my English manuscript. The proofs have been read by Miss Mohn, Mr. Graarud and Miss Muir.

February, 1905.

H. MOHN.



## CONTENTS.

	Page
<b>INTRODUCTION</b> . . . . .	1
<b>Instruments and Observations</b> . . . . .	3
Wind. Compass. Anemometer . . . . .	3
Barometers . . . . .	4
Thermometers . . . . .	10
Hygrometer . . . . .	15
Clouds . . . . .	20
Precipitation. State of the Sky . . . . .	20
The State of the Sea. . . . .	21
The Hours of Observation . . . . .	21
The Position of the Ship . . . . .	21
Ice-Temperatures . . . . .	22
<b>Observations. Journal</b> . . . . .	25
<b>Results.</b> . . . . .	249
Latitude and Longitude of the Fram . . . . .	252
Seasons . . . . .	253
<b>Wind.</b> Direction . . . . .	255
Wind-Frequency . . . . .	256
— Months . . . . .	268
Wind-Direction. Diurnal Period . . . . .	274
— Annual — . . . . .	279
The windward Side of the Wind-Rose . . . . .	284
The Constancy and Change of the Direction of the Winds . . . .	286
Wind-Velocity . . . . .	289
— Diurnal Period . . . . .	290
Diurnal Period and Amount of Cloud . . . . .	295
— Wind-Velocity. . . . .	299
— of fresh Winds. . . . .	305
— Gales . . . . .	307
— Calms. . . . .	307
Wind-Velocity. Annual Period . . . . .	309
Calms — — . . . . .	310
Dynamic Wind-Roses . . . . .	311
Wind-Resultants . . . . .	315



	Page
<b>The Pressure of the Air</b> . . . . .	316
Diurnal Period . . . . .	316
Tables . . . . .	318
Formulae and Constants . . . . .	392
Annual Period . . . . .	395
Maxima and Minima . . . . .	396
Baric Wind-Roses . . . . .	397
Wind-Roses for the Change of Pressure . . . . .	399
<b>The Temperature of the Air</b> . . . . .	401
Diurnal Period . . . . .	401
Tables . . . . .	402
Positions of the Fram . . . . .	469
Diurnal Period . . . . .	471
— in the dark Season . . . . .	472
— and Amount of Cloud . . . . .	473
— - Wind-Velocity . . . . .	478
Monthly Means. Minima and Maxima . . . . .	482
Aperiodic diurnal Range . . . . .	482
Temperature. Annual Period . . . . .	483
Mean Temperature for each Day of the Year . . . . .	484
Five-Day Means . . . . .	485
Absolute Minima and Maxima . . . . .	486
Days and Periods with a Temperature below $-40^{\circ}$ . . . . .	487
— - - - - above $0^{\circ}$ . . . . .	487
The interdiurnal Variability . . . . .	488
Duration of Periods . . . . .	489
Thermal Wind-Roses . . . . .	492
Diurnal Period in the dark Season . . . . .	496
Temperature in the Crow's Nest . . . . .	497
<b>The Tension of aqueous Vapour</b> . . . . .	499
Diurnal Period . . . . .	499
Annual Period . . . . .	502
Atmic Wind-Roses . . . . .	503
<b>The relative Humidity</b> . . . . .	505
Diurnal Period . . . . .	505
Annual — . . . . .	508
Wind-Roses . . . . .	509
<b>Cloud</b> . . . . .	511
Amount of Cloud. Diurnal Period . . . . .	511
Diurnal Period and Wind-Velocity . . . . .	514
Annual Period . . . . .	518
Nephic Wind-Roses . . . . .	519
Forms of Cloud . . . . .	520
Diurnal Period . . . . .	520
Annual Period . . . . .	522

# XIII

	Page
Cloud Motion. . . . .	522
Cirrus Belts . . . . .	525
<b>Precipitation . . . . .</b>	<b>526</b>
Probability. Diurnal Period . . . . .	526
Annual Period . . . . .	527
Wind-Roses . . . . .	528
Number of Days with Precipitation . . . . .	531
Duration of Periods with Precipitation . . . . .	533
Duration of Precipitation in one Day of Precipitation . . . . .	534
Amount of Precipitation . . . . .	534
<b>Fog . . . . .</b>	<b>536</b>
Diurnal Period of the Probability of Fog . . . . .	536
Annual Period . . . . .	537
Number of Days with Fog . . . . .	537
<b>Optical Phenomena . . . . .</b>	<b>538</b>
<b>The Temperature of the Polar Ice . . . . .</b>	<b>540</b>
Observations . . . . .	544
Summary. . . . .	560
Annual Period . . . . .	561
Variation with Depth. . . . .	562
Isopleths. . . . .	567
<b>The Distribution of atmospheric Pressure and Temperature around the     North Pole . . . . .</b>	<b>570</b>
Isobars. . . . .	571
Isotherms . . . . .	573
Mean monthly Temperature at the North Pole. . . . .	574
The annual Migration of the Isotherm for 0° C. . . . .	575
Normal Temperatures for Latitudes 60° to 90° N. . . . .	575
Isabnormals . . . . .	576
<b>Barometrical Depressions and their Motion. . . . .</b>	<b>577</b>
Tables . . . . .	579
Numbers of Depressions . . . . .	581
Lowest Pressure in Depressions. . . . .	581
Centres of Depressions passing the Fram . . . . .	582
Velocity of the Wind. . . . .	583
Direction of Motion of Centres . . . . .	583
Velocity — — . . . . .	586
<b>The diurnal and annual Periods of the meteorological Elements in the     arctic circumpolar Sea . . . . .</b>	<b>588</b>
Twilight . . . . .	589
Distance to the Shadow of the Earth . . . . .	592
Thermal Radiation . . . . .	593
Velocity of the Wind. . . . .	597
Temperature of the Air. . . . .	603

# XIV

	Page
Tension of Vapour . . . . .	607
Relative Humidity . . . . .	607
Amount of Cloud . . . . .	607
Precipitation . . . . .	608
Fog . . . . .	608
<b>The Sledge-Expedition . . . . .</b>	<b>609</b>
Barometers. . . . .	609
Thermometers . . . . .	612
Latitude and Longitude . . . . .	615
Table of Observations . . . . .	617
Climatological Table for the Winter-Hut . . . . .	650
Comparison with the Fram and Cape Flora . . . . .	652
<b>Observations in East Spitzbergen by M. EKROLL. . . . .</b>	<b>654</b>
<b>Plates I—XX.</b>	

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## ERRATA.

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- Page 33, September 28., 8 p. m., pressure, instead of 53·4, read 57·1.  
Page 52, March 2., noon, pressure, instead of 25·8, read 26·8.  
Page 302, May, Minimum 2 a. m., instead of 5·53, read 0·53.  
Page 304, last Table at the bottom, for Calm 2·4, read 2·1; and  
— — last line, instead of NE, 11·0, read 10·0, instead of Calm 0·1, read 0·0.  
Page 405, Mean Min., instead of  $-27^{\circ}7$ , read  $-27^{\circ}72$ .  
Page 481, Mean  $v$  Winter, instead of  $2^{\circ}69$ , read  $2^{\circ}96$ .  
Page 483, Last line, instead of June, read July.  
Page 504, Table, last line, instead of Month, read Months.  
Page 591, 3<sup>rd</sup> line from top, instead of  $\zeta - \varepsilon$ , read  $\zeta - \varepsilon'$ , and instead of  $\varepsilon$ , read  $\varepsilon'$ , and add  
“ $\varepsilon'$  being the terrestrial refraction for the zenith-distance  $\zeta$ .”  
Page 591, 12<sup>th</sup> line and 18<sup>th</sup> line from top, instead of  $\varepsilon$ , read  $\varepsilon'$ .  
Plate VII. Relative Humidity, instead of “by”, read “with”.  
Plate VII. Relative Humidity, Diurnal Period, instead of 1 mm., read 1 cm.  
Plate VII. Relative Humidity, Annual Period, May, instead of 81·5, read 82·8; and December,  
instead of 87, read 80·6.  
Plate VII. Cloud, Diurnal Period, Summer 4 a. m., instead of  $-1\cdot5$ , read  $-0\cdot29$ .  
Plate VIII. Cloud by Calms, instead of “by”, read “with”.  
Plate IX. Prob. of Precip., Annual Period, instead of 1 cm., read 1 mm.  
Plate IX. Probability of Precipitation. Wind-Roses, instead of 1 pct., read 10 pct.  
Plate IX. Fog-Prob. Diurnal Period, instead of 10 pct., read 1 pct.  
Plate IX. Days with Fog, June, instead of 13·7, read 10·3; and July, instead of 13·7, read 20·3.
-





THE Scheme of work for the Norwegian North Polar Expedition 1893—1896 included Meteorological Observations, comprising the direction and velocity of the wind, the pressure, temperature, and humidity of the air, the amount, form and motion of the clouds, the nature and amount of the precipitation, the direction of the motion of the waves, the state of the sea, the temperature of the sea-surface, and phenomena of occasional occurrence. During the drift of the Fram, the temperature of the ice at different depths, was also observed.

The instruments had been verified at the Meteorological Institute in Christiania before the departure of the expedition.

During the expedition, the observations were organized and superintended by Capt. S. SCOTT-HANSEN. His assistants were Lieutenant (now Capt.) HJALMAR JOHANSEN until the beginning of 1895, and after that time Mr. B. NORDAHL. SCOTT-HANSEN or his assistant made, as a rule, all observations during the day. During the night, the observations were taken by those members of the expedition who had the watch. After the return of the Fram to Christiania, the instruments and the journals containing the observations were handed over to the Meteorological Institute, where the instruments brought back were compared with the standards, and the observations worked out under my supervision. In addition to the observations from the Fram, Professor NANSEN sent me the observations taken during the sledge-journey to Franz Josef Land, the wintering in the hut, and the journey to Cape Flora.

In this memoir I shall first describe the instruments employed at the Station Fram, and the mode of using them, as also the reduction of the

observations, — separately for each of the meteorological elements; I shall then tabulate the reduced values, and finally set forth the results deduced therefrom. The temperature of the sea has been treated by Professor NANSEN in Volume III of the present Report.

A copy of the instructions given by the Norwegian Meteorological Institute for making meteorological observations at land-stations and at sea, lay on board for the use of the observers.

---

### WIND. COMPASS. ANEMOMETER.

The *direction* of the wind was always observed by the ship's steering-compass. This stood on the after-deck in front of the wheel. The direction was noted to the nearest point of the compass.

The *velocity* of the wind was measured with MOHN's hand-anemometer.<sup>1</sup> A description of this instrument is to be found in the 'Norwegian North Atlantic Expedition 1876—1878', Second Volume, Meteorology, pp. 6 to 10., and in the Quarterly Journal of the Meteorological Society (London) for January, 1878, pp. 37—39. The instrument used on the Fram was identical with that used on the North Atlantic Expedition in 1877 and 1878 and also at the Norwegian Polar Station at Bossekop in the Polar Year 1882—83. Its friction-coefficient was found, from experiments made before the departure of the Expedition, to be 1·0 metre per second, and this value has been adopted for the computation of the true velocity of the wind.

In order to find the *true* direction and velocity of the wind from those observed, we must make use of a special method of computation in the case of the ship being in motion. The method used in this case I have fully explained in the above-named memoirs (North Atl. Exp., pp. 10—30; Qu. Journ. Met. Soc., pp. 39—41). When beating along the Siberian coast against a head-wind, the Fram made much lee-way. The angle

---

<sup>1</sup> A smaller English registering anemometer was placed on a stake on the ice, and read every day; but it often broke down, and was subsequently turned into an odometer.

between the wake and the keel was continually observed from the taffrail, and has been taken into account in the determination of the ship's true course.

The total error of the compass (declination + deviation) has been taken from Professor GEELMUYDEN's Tables, D, E and F, in his memoir, *Astronomical Observations*, vol. II of the present Report, No. 6, pp. 70—82.

### ATMOSPHERIC PRESSURE. BAROMETERS.

For the observation of atmospheric pressure, the Expedition had three mercurial barometers, of which one was used as a standard and controlling barometer, and the other two were used for the regular, daily observations.

A series of comparisons between these barometers and the standard barometer of the Norwegian Meteorological Institute was made in 1893, from March 15th to May 23rd. The number of comparisons was 16. The height of the mercury-column varied from 731 mm. to 776 mm., and the reading of the attached thermometers from 4° to 17° C. The observations were reduced to 0° by means of the International Meteorological Tables.

I. *The Standard Barometer* was of the Wild-Fuess construction, and was designated as Fuess No. 362.

Its correction to true barometric height was found, in 1893, to be + 0.088 mm. The mean deviation (M. E.) of a single comparison from this mean was  $\pm$  0.042 mm. The deviations did not indicate any appreciable change of the correction with pressure or temperature.

In the beginning of 1895, the tube of this barometer was broken, and a spare tube sent with it from the maker was inserted instead of the broken one.

In March, 1897, after the return of the Expedition, Fuess No. 362 with the spare tube was compared with the standard barometer of the Meteorological Institute, and + 0.10 mm. was found as the most probable constant correction. The barometer was not then in such good working-order as in 1893. The constant correction adopted is + 0.09 mm.

During the comparisons made on board the Fram, Fuess 362 was suspended in the cabin.

II. *The Kew Station Barometer* *Adie No. C 763* was used during the drift of the Fram in the ice.

The above-mentioned 16 comparisons in 1893 gave, as a mean correction of this barometer,  $+ 0.153$  mm. The mean temperature of the attached thermometer was  $9.4^{\circ}$ . But the corrections found were apparently greater in lower temperatures than in higher. Dividing the 16 comparisons into two groups, each containing 8 observations, and taking the means for each group, I obtained

Temperature $t$ of Attached Thermometer	Correction	M. E.
$5.3^{\circ}$	$+ 0.214$ mm.	$\pm 0.084$ mm.
$13.4$	$+ 0.092$	$\pm 0.026$
Mean $9.4$	$+ 0.153$	$\pm 0.055$

The correction comes out greater with lower temperatures, and *vice versa*.  
 Correction  $= + 0.153 - 0.0151 (t^{\circ} - 9.4^{\circ}) = + 0.295 - 0.0151 t$  mm.

On board ship, Adie 763 was repeatedly compared with Fuess 362, from October, 1893, to December, 1895. The observations were made in the cabin, the barometers being suspended on the wall, side by side and at the same level. Fuess 362 was frequently observed with vacua of different volume. The observations with different vacua gave the following results for the difference between the correction found for Adie 763 with the lower vernier of Fuess 362 put at 0 mm. of the scale, and with the vernier put at  $n$  mm. (less volume of vacuum)

$n =$	10	20	30	40	50	
Diff.	$+ 0.015$	0.00	0.00	$- 0.04$	$+ 0.01$	Weighted mean 0.00.

These figures indicate that neither the standard barometer Fuess 362 nor Adie 763 contained any air. The correction found for Adie 763 was, from the observations with the auxiliary scale ( $n = 0$ ),  $+ 0.078$  mm.

- - - - - reduced vacuum,  $+ 0.078$  -

The observations in the cabin were numerous, but the circumstances were not so favorable for obtaining good results as at the Meteorological Institute. They were made by lamp-light, and the temperature of the attached thermometer was steadily rising during the series of comparisons. The attached thermometer of Fuess frequently showed from  $1^{\circ}$  to several degrees higher than that of Adie at the same moment. So great a difference was not caused by a difference in the errors of the thermometers themselves. Taking only those comparisons in which the difference between the thermometers was less than  $1^{\circ}$ , the resulting correction was as follows:



Ranged according to temperature

at  $9^{\circ}$  Corr. f. Adie 763 = + 0.102 mm.

- 13 — - — „ + 0.086 „

Higher temperatures give lower corrections, quite in accordance with the result found in 1893 in Christiania.

Ranged according to quarter years

	Mean Temp.	Corr.	Number of obs.
1893 October—December.	= $10.2^{\circ}$	+ 0.018	9
1894 January—March.	10.3	0.130	6
„ April—June.	10.8	0.078	8
„ July—September.	12.6	0.092	12
„ October—December.	13.6	0.050	1

The weighted mean becomes

at  $11.2^{\circ}$  Corr. = + 0.094 mm.

without any appreciable variation with time.

After the return of the Expedition, Adie 763 was compared with the standard barometer of the Meteorological Institute, from November 27th, 1896, to March 31st, 1897. The number of comparisons was 86, and the height of the mercury ranged from 727 mm. to 776 mm. Treated in the same manner as above, the result was as follows:

Attached Thermometer $t$	Correction	Number of Obs.	M. E.
— $2.6^{\circ}$	+ 0.38 mm.	21	$\pm 0.047$ mm.
2.2	+ 0.30	31	$\pm 0.082$
18.6	+ 0.10	28	$\pm 0.090$
25.2	+ 0.02	6	$\pm 0.022$
Weighted mean $8.0$	+ 0.235 mm.	86	$\pm 0.072$ mm.
and Correction = + 0.235 — 0.0127 ( $t^{\circ} - 8.0^{\circ}$ ) = + 0.337 — 0.0127 $t$ mm.			

The corrections found in this manner are practically the same for all heights of the barometer. Taking 4 groups out of the 86 observations, each containing 5 observations, one with low temperature and high pressure, one with low temperature and low pressure, one with high temperature and high pressure, and one with high temperature and low pressure, I obtain the following means for each group ( $b$ , barom. observed):

$t$	$b$	Corr.
$-2.74^{\circ}$	772.28	$+0.354$
$-2.72$	743.61	$0.356$
18.46	766.79	$0.120$
19.26	739.59	$0.134$

The above numbers lead to the equation

$$\text{Corr.} = +0.337 - 0.0127 t + 0.0012 (760 - b) \text{ mm.}$$

The last term becomes, when  $b = 730$ ,  $+0.04$  mm.

$$\text{. . . . . } b = 780, -0.02 \text{ .}$$

The correction may be taken as independent of the barometric height.

$$\text{In 1893 we had Corr.} = +0.295 - 0.0151 . t \quad 16 \text{ obs.}$$

$$\text{. 1897 . . . . } = +0.337 - 0.0127 . t \quad 86 \text{ .}$$

The weighted mean of the temperature-coefficient is  $-0.0131$  per degree C. The correction at  $0^{\circ}$  is greater by  $0.042$  mm. in 1897 than in 1893. The mean, which I have adopted, is  $+0.32$  mm. It differs from each of the two values by only  $\pm 0.021$  mm., which is practically insignificant.<sup>1</sup>

The station barometer Adie 763 was used for the current observations from noon, October 12, 1893, to 7 p. m. August 14, 1896. The height of its cistern above the level of the sea was  $0.93$  metres. The reduction of the height of the mercury to sea-level can be taken as  $+0.09$  mm., with no error exceeding  $\pm 0.05$  mm. for any pressure or temperature of the air.

The observations taken with Adie 763 have been reduced to the true height of the mercury at  $0^{\circ}$  and to sea-level by the Correction

$$+0.32 + \text{tabular (International) reduction to } 0^{\circ} - 0.0131 t + 0.09 \text{ mm.}$$

$$\text{Reduction at } 0^{\circ} = +0.32 + 0.09 = +0.41 \text{ mm.}$$

III. *The Marine Barometer Adie No. C 764*, was used when the Fram was in open water.

The 16 comparisons in 1893 at the Institute gave, for 2 groups,

Att. Therm.	Corr.	M. E.	
$5.2^{\circ}$	$+0.11$ mm.	$\pm 0.099$ mm.	8 obs.
13.3	$-0.14$ .	$\pm 0.079$ .	8 .

<sup>1</sup> The comparisons on board gave, at  $11^{\circ}$ ,  $+0.094$  mm. The adopted correction at  $11^{\circ}$  is  $+0.17$  mm., difference  $0.08$  mm. As the comparisons in Christiania were made under much more favorable circumstances than on board the Fram, I have adopted the above-mentioned value,  $+0.32$  mm. The check obtained by the observations on board may be considered very satisfactory. The Kew correction was  $+0.12$  mm, which corresponds to a temperature of  $18^{\circ}$  C.

After the voyage, 86 observations at the Institute gave

Att. Therm.	Corr.	Obs.
— 2·7°	+ 0·105 mm.	21
2·0	+ 0·09	31
18·8	— 0·19	28
25·6	— 0·19	6

This gives,

for 1893, Corr. = — 0·015 — 0·031 ( $t^\circ - 9\cdot25^\circ$ ) = + 0·271 — 0·031 .  $t$

„ 1897, „ = — 0·018 — 0·017 ( $t^\circ - 9\cdot3^\circ$ ) = + 0·140 — 0·017 .  $t$

Giving double weight for 1897, we get

$$\text{Mean Corr.} = + 0\cdot18 - 0\cdot022 \cdot t \text{ mm.},$$

which I have adopted.

In the same manner as with Adie 763, I have deduced the influence of pressure upon the correction.

$t$	$b$	Corr.
— 3·7°	771·7 mm.	+ 0·06 mm.
— 3·0	743·1	+ 0·10
18·1	768·1	— 0·08
18·5	741·5	— 0·03

$$\text{Corr. (1897)} = + 0\cdot140 - 0\cdot017 t + 0\cdot0007 (760 - b) \text{ mm.}$$

$$b = 730; 0\cdot0007 (760 - b) = + 0\cdot02 \text{ mm.}$$

$$b = 780 \quad 0\cdot0007 (760 - b) = - 0\cdot01 \text{ mm.}$$

On board ship, Adie 763 and Adie 764 were compared from February, 1895, to June, 1896.

			No. 764—No. 763	Temperature
1st Half-year,	1895		0·26 mm.	16·4°
2nd —	1895		0·27	16·2
1st —	1896		0·22	15·9
Mean			0·25 mm.	16·2°

The adopted corrections are, at 16·2°,

$$\text{For Adie 763 Corr.} = + 0\cdot12 \text{ mm.}$$

$$\text{„ „ 764 „} = - 0\cdot17 \text{ mm.}$$

$$\text{Difference} = 0\cdot29 \text{ mm.}$$

$$\text{Diff. observed on board} = 0\cdot25 \text{ mm.}$$

$$\text{Difference} = 0\cdot04 \text{ mm.}$$

There is consequently a most satisfactory accordance between the results of the comparisons made on board and on shore.

Adie 764 was observed in 1893, from July 21st to October 12th, from Vardø until the Fram was frozen in, and in 1896 from August 14th to August 19th, from Spitzbergen to Norway. It was suspended in the chart-house on the upper deck with its cistern 3·9 metres above sea-level. The reduction of the barometric heights to sea-level has been taken as constant and as  $+0\cdot38$  mm. At  $0^\circ$  the entire reduction becomes

$$+0\cdot18 + 0\cdot38 \text{ or } +0\cdot56 \text{ mm.}$$

The mean error of a single observation of a Kew station barometer is about  $\pm 0\cdot05$  mm. The mean error of a single observation of a marine barometer at sea is hardly less than  $\pm 0\cdot1$  mm. The observers always noted the nearest tenth of a millimetre.

*The Reduction to Standard Gravity.* SCOTT-HANSEN's pendulum-observations, and Professor O. E. SCHIÖTZ's computations, have shown (Vol. II No. 8) that the force of gravity observed during the expedition is in full accordance with HELMERT's formula

$$g_\varphi = 9\cdot78 (1 + 0\cdot00531 \sin^2 \varphi) \text{ m.}$$

If the height of the barometric column as a measure of the true pressure be  $B$ , the observed height (reduced to  $0^\circ$  and standard barometer)  $b$ , the standard gravity  $g_{45}$ , and the gravity at the place of observation  $g_\varphi$ , we have

$$\frac{B}{b} = \frac{g_\varphi}{g_{45}}; B = b \frac{g_\varphi}{g_{45}}$$

$$\text{Gravity-correction } B - b = b \left( \frac{g_\varphi}{g_{45}} - 1 \right) = b \left( \frac{g_\varphi - g_{45}}{g_{45}} \right).$$

From this formula was computed the following table for the values of the gravity-correction as function of the latitude and the height of the barometer.

*Gravity-Correction.* mm.

Latitude	Height of Barometer. mm.						
	720	730	740	750	760	770	780
70°	1.46	1.48	1.50	1.52	1.54	1.56	1.58
71	1.50	1.52	1.54	1.56	1.59	1.61	1.63
72	1.54	1.56	1.58	1.61	1.63	1.65	1.67
73	1.58	1.60	1.62	1.65	1.67	1.69	1.71
74	1.62	1.64	1.66	1.68	1.71	1.73	1.75
75	1.65	1.67	1.70	1.72	1.74	1.77	1.79
76	1.68	1.71	1.73	1.75	1.78	1.80	1.82
77	1.71	1.74	1.76	1.78	1.81	1.83	1.86
78	1.74	1.77	1.79	1.81	1.84	1.86	1.89
79	1.77	1.79	1.82	1.84	1.87	1.89	1.92
80	1.79	1.82	1.84	1.87	1.89	1.92	1.94
81	1.81	1.84	1.86	1.89	1.91	1.94	1.96
82	1.83	1.86	1.88	1.91	1.93	1.96	1.98
83	1.85	1.88	1.90	1.93	1.95	1.98	2.00
84	1.87	1.89	1.92	1.94	1.97	1.99	2.02
85	1.88	1.90	1.93	1.96	1.98	2.01	2.03
86	1.89	1.91	1.94	1.97	1.99	2.02	2.04
87	1.90	1.92	1.95	1.98	2.00	2.03	2.05

The observations have been reduced to standard gravity by means of a diagram constructed from the above table. The reductions for temperature, constant error, and gravity were made with two decimals of a millimetre. In the Tables, the reduced observations of the pressure are given to the nearest tenth of a millimetre.

The Expedition had two *Barographs* made by RICHARD in Paris. One of them stood in the cabin, and continually registered the pressure of the atmosphere. The clock-work was wound up and the paper changed every Monday. The scale was 1 mm. = 1 mm. Further particulars will be found in the chapter on the Pressure of the Air.

**TEMPERATURE OF THE AIR. THERMOMETERS.**

The expedition started with the following thermometers, destined for meteorological observations:

I. 8 mercury thermometers, made by SÖDERBERG in Stockholm, divided into 0.2 of a degree on paper scales hermetically inclosed, and ranging from  $-40^{\circ}$  to  $+40^{\circ}$  C. Spherical bulbs.



They were compared in April, 1893, with the standard thermometer of the Norwegian Meteorological Institute, whose corrections to the hydrogen thermometer are known.

The results of these comparisons were as follows:

SÖDERBERG		Correction at				
No.	0°	3°	9°	12°	20°	30°
105	+ 0·20°	+ 0·12°	— 0·01°	— 0·07°	— 0·12°	— 0·13°
106	+ 0·20	+ 0·12	0·00	— 0·02	— 0·12	— 0·13
107	+ 0·20	+ 0·12	0·00	— 0·07	— 0·12	— 0·13
109	+ 0·20	+ 0·12	— 0·05	— 0·07	— 0·15	— 0·15
111	+ 0·20	+ 0·12	— 0·05	— 0·07	— 0·15	— 0·16
112	+ 0·20	+ 0·17	— 0·02	— 0·07	— 0·15	— 0·18
114	+ 0·20	+ 0·14	— 0·02	— 0·07	— 0·12	— 0·10
118	+ 0·20	+ 0·14	— 0·02	— 0·02	— 0·11	— 0·13

It was intimated that the zero-points would probably rise with time; and it will be seen by comparison with the adopted corrections, that this has also been the case. Unhappily not one of these thermometers has been brought back in a sufficiently unchanged state to allow of these corrections being verified. The determination of the zero-points on the voyage was attended with difficulty, owing to the fact that snow or ice that did not contain salt was almost unobtainable. The most trustworthy observations were made with hoar-frost collected on board.

II. 4 toluol thermometers made by TONNELOT in Paris, the stem divided into whole degrees C., cylindrical bulbs. They were compared at the Bureau International des Poids et Mesures (Sèvres) at low temperatures in May, 1892, and their zero-points were determined at the Meteorological Institute in Christiania in April, 1893.

The corrections to the hydrogen thermometer were as follows:

TONNELOT		Correction at					
No.	0°	— 23°	— 30°	— 52°	— 53°	— 54°	— 65°
4992	+ 0·20°	— 0·02°				— 0·24°	
4993	+ 0·20	+ 0·07			+ 0·03°		
11001	+ 0·20		+ 0·08°	+ 0·01°			+ 0·07°
11002	+ 0·20		— 0·16	— 0·09			— 0·15

The correction at  $0^{\circ}$  of No. 4993 was found to be,  
on board, April 12, 1894,  $0.0^{\circ}$  }  
in Christiania, March, 1897,  $+ 0.3$  }  $0.25^{\circ}$

The correction at  $0^{\circ}$  of No. 11001 was found to be,  
on board, October, 1893,  $+ 0.25^{\circ}$ .

Only No. 4993 was brought back. All the zero-points may be regarded as having undergone no appreciable change during the voyage.

The Tonnelot thermometers, corrected for their errors, have been used as standards in the comparisons that were made on the voyage, for finding the corrections of the other thermometers for temperatures below  $- 20^{\circ}$ . These comparisons were only made in the air, the thermometers being suspended in the thermometer-screen.

III. 15 mercury sling-thermometers Nos. 11 to 25, made by SÖDERBERG. Their stems were divided into whole degrees C., and they had cylindrical bulbs. They were compared in Christiania in 1893, and their zero-points occasionally verified during the voyage.

IV. 10 spirit sling-thermometers, Nos. 1—10, made by SÖDERBERG, to which the same remarks apply as for III. It was observed that the fluid became thick at  $- 40^{\circ}$ .

V. A number of spirit minimum (index) thermometers. Their corrections were determined every day that they were in use, by comparison of the reading of the top of the spirit-column with the thermometer for the air-temperature.

VI. 2 mercury maximum thermometers. They were compared in Christiania in May, 1893, and the comparisons made on the voyage showed that they kept their corrections in a very satisfactory manner.

VII. 2 sets of registering thermographs from RICHARD in Paris, specially made for the Expedition. The clock-work turned the drum round in a week, and the registered temperatures could be read to  $\pm 0.1^{\circ}$  C.

The thermometers used as dry and wet-bulb thermometers for observing the temperature of the air and determining its humidity, were some of those described above under I and II. The thermometers employed, with their corrections, are as follows:

## SÖDERBERG No. 109.

From	To	Corr.
— 10°	+ 2°	+ 0·1°
+ 2	+ 7	0·0
+ 7	+ 12	— 0·1
+ 12	+ 20	— 0·2

## TONNELOT No. 11002.

From	To	Corr.
— 60°	— 20°	— 0·1°

## SÖDERBERG No. 106.

From	To	Corr.
— 40°	— 38°	+ 0·3°
— 38	— 36	+ 0·2
— 36	— 33	+ 0·1
— 33	— 30	0·0
— 30	— 22	— 0·1
— 22	— 18	0·0
— 18	— 1	+ 0·1
— 1	+ 4	0·0
+ 4	+ 9	— 0·1
+ 9	+ 18	— 0·2

## SÖDERBERG No. 114.

From	To	Corr.
— 40°	— 36°	+ 0·4°
— 36	— 33	+ 0·3
— 33	— 32	+ 0·2
— 32	— 29	+ 0·1
— 29	— 27	0·0
— 27	— 23	— 0·1
— 23	— 9	— 0·2
— 9	— 7	— 0·1
— 7	+ 5	0·0
+ 5	+ 8	— 0·1
+ 8	+ 20	— 0·2

## TONNELOT No. 4992.

From	To	Corr.
— 55°	— 40°	— 0·2°
— 40	— 27	— 0·1
— 27	— 15	0·0

## SÖDERBERG No. 118.

From	To	Corr.
— 40°	— 37·5°	+ 0·4°
— 37·5	— 36	+ 0·3
— 36	— 34	+ 0·2
— 34	— 32	+ 0·1
— 32	— 30	0·0
— 30	— 15	— 0·1
— 15	+ 3	0·0
+ 3	+ 8	— 0·1
+ 8	+ 16	— 0·2
+ 16	+ 20	— 0·3

## TONNELOT No. 11001.

From	To	Corr.
— 60°	— 40°	+ 0·1°

## TONNELOT No. 4993.

From	To	Corr.
— 40°	— 20°	+ 0·1°

SÖDERBERG No. 105 a.			SÖDERBERG No. 105 b.		
From	To	Corr.	(repaired)		
— 38°	— 37°	— 0·2°	verified in Christiania.		
— 37	— 33	— 0·1	From	To	Corr.
— 33	— 31	0·0	0°	+ 2·5°	+ 0·4°
— 31	— 23	— 0·1	+ 2·5	+ 8	+ 0·3
— 23	— 18	0·0	+ 8	+ 16	+ 0·2
— 18	0	+ 0·1	+ 16	+ 20	+ 0·1
0	+ 4	0·0			
+ 4	+ 8	— 0·1			
+ 8	+ 16	— 0·2			

The dates on which the thermometers were taken into use are as follows:

			Dry-bulb Thermometer.	Wet-bulb Thermometer.
1893.	July 22.	SÖDERBERG No. 109		SÖDERBERG No. 118
	Sept. 27.	SÖDERBERG „ 106		
1894.	Jan. 10.	TONNELOT „ 11002		
	Apr. 12.	SÖDERBERG „ 114		
	Nov. 10.	TONNELOT „ 4992		
1895.	May 6.	SÖDERBERG „ 114		SÖDERBERG „ 105 a
	June 26.	SÖDERBERG „ 118		
	Nov. 10.	TONNELOT „ 4992		
	- 30.	SÖDERBERG „ 118		
	Dec. 7.	TONNELOT „ 11001		
		and SÖDERBERG „ 118		
	Dec. 29.	TONNELOT „ 4993		
		and SÖDERBERG „ 118		
1896.	March 19.	SÖDERBERG „ 118		
	July 14.	SÖDERBERG „ 105 b none.		

When the Fram was under way or at anchor, the observations were made with the thermometers placed on a whirling machine, and rotated for one minute. This was done as far as possible in the shade, and on a spot that was free from radiating or conducted heat from any part of the ship.

From the day when the ship became fast in the polar ice, the thermo-

meters and the thermograph, as well as the hygrometers, were placed in a spacious thermometer-screen of the model of the Stevenson Screen, made of wood, and resting upon four wooden feet fastened into the ice below. The bulbs of the thermometers were at a height of about 1·2 metres above the ground. When the sun was above the horizon, an extra screen kept the thermometer-screen in shadow. The few instances in which the adjustment of the extra screen was forgotten, are noted in the remarks. As there was generally a wind blowing, the thermometers were well ventilated. The screen had no bottom; this was necessary in order to prevent it from being filled with driving snow. The observers remark in some cases, in very cold weather, that the thermometers showed a little lower shortly after the opening of the door of the screen than before. This may be an effect of radiation of heat from the thermometers, and an indication of the necessity of having them protected from radiation by means of the screen. The first reading of the thermometers has been taken as the true reading.

On several occasions the thermometer-screen was in danger of being carried away by the screwing of the ice, and had to be taken on board. Such cases have been noted in the remarks.

#### HUMIDITY OF THE AIR. HYGROMETERS.

The humidity of the air was determined from observations made with a psychrometer and a hair-hygrometer.

The SÖDERBERG thermometers mentioned above (page 13) served as dry and wet-bulb thermometers. When the ship was at sea, the thermometers were rotated in the whirling machine. During the drift of the Fram, the thermometers stood in the thermometer-screen (described above).

From the corrected readings of the dry and wet-bulb thermometer, the vapour-tension and the relative humidity were computed by means of JELINEK's Psychrometrical Tables. When the wet-bulb thermometer was below zero, its reading has been corrected, in accordance with EKHOLM's recommendation, in the following manner before using the psychrometer tables.

From	To	Corr.
— 0·1°	— 1·1°	— 0·1°
— 1·3	— 2·2	— 0·2

From	To	Corr.
— 2·4	— 3·3	— 0·3
— 3·5	— 4·4	— 0·4
below — 4·4		— 0·5.

In this manner, the observations in which the wet-bulb thermometer was below  $0^{\circ}$  and above  $-10^{\circ}$  are employed as well qualified to give trustworthy results.

The Expedition had two hair-hygrometers, designated in the Meteorological Journal as I and II. They were placed in the thermometer-screen close to the psychrometer, and were read constantly during the time in which the temperature of the air was below zero. The values found for the relative humidity, from the observations of the psychrometer, when the wet-bulb thermometer stood between  $0^{\circ}$  and  $-10^{\circ}$ , served for finding the corrections of the hair-hygrometer.

The first autumn was an exception to this rule. On October 11, 1893, the screen was set out on the ice with its thermometers and a hair-hygrometer. Before this date, no observations of the hair-hygrometer had been made, but only psychrometer-observations. These, from the 2nd October, were taken in temperatures generally lower than  $-10^{\circ}$ . In order to render them serviceable for the determination of the humidity of the air, I had recourse to the direct comparisons between the psychrometer and the hygrometer made during the spring and autumn of 1894. The result of these comparisons was that the psychrometer-readings computed in the above-named manner from the psychrometrical tables, gave too low values for the humidity. The corrections for the psychrometrical relative humidity found were, at  $-10^{\circ}$  Corr. = 0, at  $-20^{\circ}$  Corr. = + 14 %, and at  $-30^{\circ}$  Corr. = + 26 %, practically proportional to the temperature. The values for the humidity entered in the Tables for the days from the 2nd to the 11th October, 1893, are computed by means of these corrections.

The corrections found for the readings of the hair-hygrometers by means of psychrometrical observations (ps), or by keeping them in saturated air (sat), were as follows:

Hygrometer I, from October, 1893, to March, 1895.

1893. Oct. 27. Corr. + 3·4 % (ps). In the saloon. (Psychr. not ventilated)  
 — Nov. 7. „ — 6·9 - (ps) On board (in the chart-house?)



1893.	Nov.	11.	Corr.	— 3·8 % (ps)	On board, in the saloon.
—	Dec.	1.	„	+ 8·0 - (ps)	— — — . . —
1894.	March	4.	„	+ 6·1 - (ps)	— — — . . —
—	-	8.	„	+ 6 - (sat)	— — —
—	-	17.	„	+ 4 - (sat)	— — —
—	Apr.	2.	„	+ 2 - (sat)	— — —
—	-	4.	„	+ 2 - (sat)	— — —
—	-	17.	„	- 1 - (sat)	— — —
—	-	20.	„	+ 2 -	Dense fog over the ice.
—	May	15—31.	„	- 6·9 - (ps)	in screen
—	June		„	- 4·4 - (ps)	— — —
—	July		„	- 2·1 - (ps)	— — —
—	August		„	- 0·8 - (ps)	— — —
—	Sept.		„	- 6·9 - (ps)	— — —

## Hygrometer II. 1894. Spring.

1894.	March	17.	Corr.	= - 2 % (sat)	on board
—	Apr.	2.	„	- 8 - (sat)	— — —
—	-	4.	„	- 2 - (sat)	— — —

## Hygrometers I and II, from June, 1895.

		I.		II.	
1895.	June	Corr.	= - 2·2 %	Corr.	= - 0·0 % (ps) in screen.
—	July	„	+ 0·6 -	„	+ 2·1 - . . — — —
—	August	„	+ 1·0 -	„	- 0·5 - . . — — —
—	Sept.	„	- 2·3 -	„	- 1·1 - . . — — —
—	Oct. 5.	„	+ 3·9 -	„	+ 3·1 - . . — — —
1896.	May 17—31.	„	+ 4·6 -	„	- 3·5 - . . — — —
—	June	„	+ 6·0 -	„	+ 0·4 - . . — — —
—	July	„	+ 7·3 -	„	+ 4·3 - . . — — —

In the winter, the hygrometers were often covered with hoar-frost, and it was necessary to have them thawed and cleaned. This operation did not seem to affect their reading in any appreciable degree. When a hygrometer, after having been cleaned, was brought out into the open air, it sometimes showed too low, but soon attained its true working position, and the reading

was never noted until this was reached. The hygrometer in the screen served as a check on the other, when the latter was set out after being cleaned or verified.

The comparisons made between the psychrometer and the hygrometer give a mean error of comparison of from 1 to 2 %. For the winter, the error of a single adopted value of the relative humidity is estimated to be from 3 % to 5 %.

*The vapour-tension* (or absolute humidity) has been computed

(1) from the psychrometer-observations and JELINEK's Tables, when the temperature of the wet-bulb thermometer was above  $-10^{\circ}$ ; from  $0^{\circ}$  to  $-10^{\circ}$  by EKHOLM's rule.

(2) from the corrected readings of the hair-hygrometer.

If  $e_m$  be the maximum tension of vapour at the temperature of the air,

$e$  the vapour-tension sought, and

$r$  the relative humidity,

we have 
$$e = e_m \times \frac{r}{100}.$$

The values for  $e_m$  were taken from JELINEK's Tables I a, Spannungstafel. For temperatures from  $-40^{\circ}$  to  $-55^{\circ}$  the following auxiliary table was computed by the formula<sup>1</sup>

$$B = A \cdot 10^{\frac{\beta\tau}{1 + \alpha_o\tau}} = e_m$$

where  $A = 4.57$  mm,  $\beta = 0.03134$ ,  $\alpha_o = 0.003667$ , and  $\tau =$  temperature of the air.

Temp. of Air.	Max. Tension
$-40^{\circ}$	0.15 mm.
$-45$	0.08 "
$-50$	0.05 "
$-55$	0.02 "

Vapour-tensions below 0.05 mm. are given in the tables as 0.0 mm.

The values given for the relative humidity may be uncertain to the extent of  $\pm 5\%$ . The influence of such an error upon the deduced value of the vapour-tension is trifling, and practically of no importance. The follow-

<sup>1</sup> O. J. BROCH. Tension de la vapeur d'eau p. A. 30.

ing table shows the error  $\Delta r$  in the relative humidity, corresponding to an error  $\Delta e$  in the vapour-tension at different temperatures,  $t$ , below zero.

$t$	$\Delta e$	$\Delta r$
0°	0·1 mm.	2 %
— 5	0·1	3
— 10	0·1	5
— 15	0·1	7
— 20	0·1	9
— 25	0·1	16
— 30	0·1	25
— 35	0·1	40
— 40	0·1	64
— 45	0·05	53
— 50	0·01	18
— 55	0·01	32

The vapour-tension may accordingly be assumed to be determined with an accuracy of one tenth of a millimetre.

*The Relative Humidity* has been computed

(1) from the psychrometrical observations in conjunction with the vapour-tension.

(2) from the readings of the hair-hygrometer. From October, 1893, to March 17, 1894, only Hygrometer I. was observed. From the latter date to the 20th August, 1896, both hygrometers were as a rule observed, and the mean of their corrected readings — provided their corrections were considered trustworthy — adopted for the relative humidity. The values of the relative humidity computed from the psychrometrical observations have been checked throughout by the simultaneous observations of one or two hygrometers.

The mean error of a single determination of the relative humidity entered in the Tables, resulting from the different comparisons of simultaneous observations of two instruments, may be taken as hardly greater than 5 %.

### CLOUDS.

The *amount* of cloud is given according to the usual scale: 0 = clear, no clouds, blue sky, to 10 = entirely overcast. Thin clouds are indicated by <sup>0</sup> as exponent, very thick clouds by <sup>2</sup> as exponent.

The *forms* of the *clouds* were noted in conformance with HOWARD'S definition. The International Cloud Atlas was not published at the time of the departure of the Expedition in 1893.

The *drift* of the clouds is given by noting the point of the compass *from* which they came.

### PRECIPITATION. STATE OF THE SKY.

The Expedition had a rain-gauge and a snow-gauge of the same pattern as those of the Norwegian Meteorological Institute. The rain-gauge has a circular, and the snow-gauge a square, receiving surface of 225 square centimetres. The gauges were placed on board or on the ice. The amount of precipitation collected in the gauges was always very small, and cannot be regarded as a true measure of the quantity of liquid or frozen moisture that fell upon the ground. It is a well-established fact that it is impossible with ordinary gauges to obtain the full amount of rain, and particularly of snow, measured in the conditions prevailing in arctic regions. The amount of precipitation noted has therefore not been entered in the Tables in a special column, but has been transferred to the remarks and to a special Table.

The *weather* and the *state of the sky* are given in the Tables by the conventional signs and the "Beaufort Notation".

☉	Rain.	☉* <sup>0</sup>	Slight sleet.
☉ <sup>0</sup>	Slight rain.	☉* <sup>2</sup>	Heavy sleet.
☉ <sup>2</sup>	Heavy rain.	△	Hail.
*	Snow.	≡	Fog.
* <sup>0</sup>	Slight snow.	☉≡	Foggy rain.
* <sup>2</sup>	Heavy snow.	—	Hoar-frost.
☉*	Sleet.	⤿	Rainbow.

† Glaced frost.	<i>b</i> Blue sky.
⊙ <i>p</i> Passing rain-showers.	<i>c</i> Cloudy.
⊙ Solar corona.	<i>d</i> Drizzling rain.
⊕ Solar halo.	<i>p</i> Passing showers.
☾ Lunar corona.	<i>q</i> Squally.
☾ Lunar halo.	

The observations of the aurora polaris will be treated by Prof. NANSEN in a special memoir, and are therefore not entered in the Meteorological Tables.

### THE STATE OF THE SEA.

The *direction* of the motion of the sea was noted by the compass in the same manner as the wind, and has been reduced to the true meridian.

The *Sea-Disturbance* was estimated in accordance with the following scale:

0 = dead calm.	4 = moderate.	7 = high
1 = very smooth.	5 = rather rough.	8 = very high.
2 = smooth.	6 = rough.	9 = tremendous.
3 = slight.		

The state of the sea has not been entered in the Tables, but referred to a special chapter.

### THE HOURS OF OBSERVATION

are local time, civil date.

### THE POSITION OF THE SHIP.

The latitude and longitude (Greenwich Mer.) for each hour of observation given in the Tables have been taken from charts showing the exact route of the Fram from Vardø to the New Siberian Islands, (cf. vol. III, No. 9, Pls. VII—IX) and from the astronomical observations published by Prof. GEELMUYDEN in vol. II, No. 6 of this work. The positions between the places determined directly by astronomical observations have been computed by direct linear interpolation.

### ICE-TEMPERATURES.

The temperature of the ice surrounding the Fram was measured at different depths by means of thermometers enclosed in parafin and inserted in a woodenrod lowered into a hole bored for that purpose. These observations will be treated of in a special chapter.

The observations made on the sledge-journey will also be treated of in a special chapter.

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## **OBSERVATIONS.**







1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 29.	1	69°23'	57°08'	NW <sup>b</sup> N	5.3	756.8	5.2	6.3	95	10	Cloudy		
	4	- 22	- 42	NW <sup>b</sup> N	6.0	756.9	7.3	6.5	86	8	Cloudy		
	8	- 23	58 08	NNW	3.5	58.2	5.2	6.3	95		Cloudy		
	Noon	- 33	59 02	NW <sup>b</sup> N	7.2	59.9	5.8	6.1	88	9	Str. Cu.	NW	
	6	- 38	60 10	NW <sup>b</sup> W	5.4	60.8	6.6	6.0	83	9	Cust.	NW	
	8	- 41	- 20	S <sup>b</sup> W	1.0	60.6	6.7	5.7	78	9	Cust.		
	Mn.	Khabarova		S <sup>b</sup> W	5.7	61.3	4.4	5.3	85	9	Cloudy		☉°
July 30.	8	Khabarova		N <sup>b</sup> E	4.4	62.2	5.2	4.8	72	8	Cust.	N	
	Noon	—		N <sup>b</sup> E	5.2	62.6	4.1	5.0	82	7	Cust.	N	☉°
	8	—		NE <sup>b</sup> E	2.2	63.9	3.6	5.3	90	7	Cloudy		
July 31.	4	Khabarova		SW <sup>b</sup> W	1.8	66.8	5.6	5.8	85	6	Cloudy		
	8	—		W <sup>b</sup> N	4.1	66.8	6.2	6.1	87		Cloudy		
	Noon	—		W <sup>b</sup> N	3.3	67.2	6.8	5.1	70		Cloudy		
	8	—		NW	3.3	68.0	3.9	6.1	100	8	Cust.		
	Mn.	—		NW	2.3	68.4	2.4	5.5	100	2	Cust.	WNW	
Aug. 1.	5	Khabarova			0.0	69.1	2.3	5.1	94	0			
	8	—		NW	0.0	68.9	6.4	5.6	78				
	Noon	—		SSW	1.6	67.6	2.8	5.6	100	10			≡
	4	—		SSE	4.4	66.9	3.4	5.6	95	8	Str.	NW	
Aug. 2.	10 a	Khabarova		S	7.2	69.2	9.5	6.5	74		Cust.	SSE	
	9 p	—		S	7.2	64.2	10.0	8.1	89	9	Cust.	SSE	
Aug. 3.	8	Khabarova		W	3.2	55.4	7.4	7.7	100	10			≡
	Noon	—		W	2.6	54.9	7.8	7.7	98	10			≡
	6	—		NNE	5.7	56.0	6.9	7.3	98	10	Cloudy		≡
	Mn.	—		NNE	5.8	59.0	3.0	5.5	96	10			≡
Aug. 4.	4	69°53'	60°40'	NNE	4.9	60.5	2.0	5.2	98	10	Cloudy		
	8	- 51	61 30	N <sup>b</sup> E	1.4	60.6	2.2	5.3	100				
	4	- 62	62 50	NW <sup>b</sup> N	0.9	62.3	1.5	4.7	93	8	Cust.		
	8	- 48	63 17		0.0	62.0	1.5	4.6	91	7	Cicu.	NNW	
	Mn.	- 38	64 00		0.0	61.4	2.0	4.5	85				
Aug. 5.	4	69 28	64 50		0.0	61.8	0.9	4.5	92				
	8	- 31	65 38	SE	0.4	61.5	1.5	5.0	98	9	Cust.		
	Noon	- 37	66 15	SE	0.4	59.7	1.4	4.9	96	10	Str.		≡
	5	- 43	- 30	WNW	3.7	59.8	1.8	5.1	98	10			≡
	8	- 44	- 40	WNW	4.6	59.3	1.7	5.1	98	10			≡
	Mn.	- 43	- 44	SSW	1.9	53.0	1.8	5.1	98	7	Cu.	NW	☉°
Aug. 6.	1	69 43	66 44	W <sup>b</sup> N	3.3								
	4	- 40	- 42	W <sup>b</sup> N	2.9	52.2	3.3	5.7	98	10			≡
	8	- 37	- 43	NW	3.8	55.9	3.1	5.5	96	10	Str.		☉°
	1	- 37	- 43	NW	5.2	55.4	2.0	5.3	100	10			≡
	4	- 37	- 43	NNW	4.5	58.4	1.5	5.0	98	9			≡
	8	- 37	- 43	NNW	4.3	59.2	1.3	4.8	94	0.5	Ci. Cust.		≡
	Mn.	- 37	- 43	NNW	3.5	61.3	0.3	4.7	100	10			≡
Aug. 7.	4	69 37	66 43	NNW	3.9	62.5	0.4	4.2	94	0.5			≡°
	8	- 37	- 43	NW <sup>b</sup> N	2.6	64.8	3.8	5.2	87	0.5	Cloudy		
	Noon	- 37	- 43	NW	3.2	64.9	2.0	5.2	96	0.5			
	4	- 37	- 43		0.0	66.3	2.5	5.1	93	10	Str.		
	Mn.	- 37	- 43	SSW	1.7	65.5	3.0	5.5	96	5			
Aug. 8.	4	69 37	66 43	S <sup>b</sup> E	3.7	65.3	3.5	5.8	98	8			
	8	- 37	- 43	S <sup>b</sup> E	5.2	63.9	4.6	6.1	97	10	Str.		
	Noon	- 37	- 43	S <sup>b</sup> E	8.0	62.0	0.0	4.1	89	2	Str.		
	1	- 37	- 43	S <sup>b</sup> E	7.0	61.7	5.9	6.6	96	9	Cicu. Str.	NNE	
	4	- 37	- 43	S <sup>b</sup> E	7.1	59.8	6.8	7.1	96	4	Cicu.	NNE	

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 8.	8 Mn.	69°37' - 37	66°43' - 43	SE SE	6·5 9·7	760·0 53·1	5·8 5·4	6·9 6·7	100 100	6 10	Cicu. Cust.	SE ESE	
Aug. 9.	4 8 11 Noon 3 4 8 Mn.	69 37 - 37 - 37 - 37 - 37 - 37 - 32	66 43 - 43 - 43 - 43 - 43 - 43 - 21	SE SSE NW <sup>b</sup> N NW <sup>b</sup> N NW <sup>b</sup> N NW NW NW	6·9 9·0 13·0 13·9 10·3 10·3 9·8 6·4	56·2 53·1	6·1 6·1	6·5 6·7	93 96	10 10	Str. Str. Cu. Cu. Str.	SE NW NW	☉       
Aug. 10.	3.30 Noon 4 8 Mn.	69 35 70 2 - 17 - 36 - 49	66 17 65 32 - 22 - 28 - 54	WNW SW <sup>b</sup> W SW <sup>b</sup> W W W	7·7 5·1 4·2 5·6 5·2	62·0 62·0 60·0 59·7 59·4	2·4 2·1 2·0 1·8 1·4	5·3 5·2 5·2 4·9 4·7	96 96 96 93 93	10 9 9 6 10	Str. Cust. Cust. Str.	SW WNW	≡    m
Aug. 11.	4 8 Noon 4 5 8 Mn.	71 3 - 18 - 22 - 28 - 30 - 36 - 43	66 7 - 10 - 16 - 38 - 48 - 57 67 15	W <sup>b</sup> N WSW W <sup>b</sup> N W <sup>b</sup> N W <sup>b</sup> N W <sup>b</sup> N E <sup>b</sup> N	3·3 3·3 2·8 4·3 2·5 1·4	59·5 58·7 59·1 59·9 59·7 59·4	1·9 1·0 0·5 0·2 0·2 2·0 2·6	5·2 4·8 4·8 4·6 4·6 5·0 5·0	98 98 100 98 98 93 91	10 10 10 10 10 8 8	Cust. Cust.	NW NE	≡ ≡ ≡ ☉ <sup>0</sup> ☉ <sup>0</sup> ≡ ≡
Aug. 12.	4.30 8.45 Noon 4 8 Mn.	71 57 72 13 - 28 - 52 73 15 - 37	67 50 68 22 - 33 - 30 - 45 69 1	SE <sup>b</sup> E ESE SE <sup>b</sup> E E <sup>b</sup> S E E	2·9 2·7 4·6 6·7 9·4 5·4	59·3 57·3 55·7 55·1 54·2 54·6	3·4 4·1 6·4 5·2 4·9 5·2	5·2 5·7 5·4 6·1 5·9 5·3	88 93 75 92 92 80	8 9 8 10 9 9	Cicu. Cust. Cust. Cust. Cust. Cu.	NE E <sup>b</sup> N E	☉ <sup>0</sup>      
Aug. 13.	4 8 Noon 4 8 Mn.	73 54 74 10 73 57 - 47 - 36 - 56	69 22 - 43 - 43 - 47 - 50 70 1	E E E <sup>b</sup> N E <sup>b</sup> N E E <sup>b</sup> N	7·3 9·0 8·0 9·6 9·3 6·8	57·2 56·5 56·2 55·5 55·0 55·6	4·3 4·5 4·6 4·9 4·6 4·5	5·9 5·9 5·9 5·9 5·8 5·7	96 94 94 92 92 90	9 9 9 8 8 8	Cust. Cust. Cust. Cust. Cust.	NE <sup>b</sup> E NE <sup>b</sup> E NE <sup>b</sup> E	☉ <sup>0</sup>     
Aug. 14.	4 8 Noon 5.30 8 Mn.	74 13 - 30 - 23 - 10 - 18 - 30	70 8 - 10 - 5 - 13 - 20 - 25	E E <sup>b</sup> N E <sup>b</sup> S E E E <sup>b</sup> S	7·2 7·1 7·0 5·8 6·3 3·8	56·1 56·7 57·2 56·8 57·0 58·2	4·8 4·5 4·6 4·7 4·3 4·5	5·5 5·8 5·8 6·1 6·1 5·7	86 92 92 96 98 90	8 9 10 10 10 10	Cust. Cust. Str.	NE <sup>b</sup> E NE NE	☉ ☉ <sup>0</sup> ☉ <sup>0</sup> ≡ ≡ ≡
Aug. 15.	4 8 Noon 4 8 Mn.	74 35 - 36 - 39 - 50 75 1 - 7	70 28 - 51 71 20 72 10 73 7 - 51	E <sup>b</sup> S SE <sup>b</sup> E E E E <sup>b</sup> S E	1·9 3·5 3·0 6·2 7·3 6·8	59·2 59·8 60·8 60·8 60·6 60·2	4·1 4·9 5·2 4·1 4·0 5·2	6·0 6·0 6·3 6·0 5·6 6·1	98 94 95 98 92 92	10 9 3 10 8 9	Cust. Cicu.		≡     m
Aug. 16.	4 8 Noon 4 8 Mn.	74 41 - 33 - 27 - 43 - 27 - 41	74 21 - 55 75 25 76 5 - 20 - 51	ESE E E E E <sup>b</sup> S E <sup>b</sup> S	7·3 10·1 10·4 11·0 13·6 11·1	59·6 57·5 57·2 57·0 55·5 57·3	5·2 4·9 5·0 3·7 4·5 4·6	6·1 5·7 5·7 5·7 6·2 6·2	92 89 87 95 98 98	7 8 9 10 10 10	Cust. Cust. Str. Str. Str. Cu.		☉ <sup>0</sup> ☉ <sup>0</sup>     

<sup>1</sup> ≡ with the sun shining through.

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 17.	4	74° 57'	77° 37'	E <sup>b</sup> S	11·6	759·1	2·3	5·1	94	10	Str.		
	8.30	75 12	78 21	E <sup>b</sup> S	12·2	61·0	2·8	5·0	89	8	Cust.		
	Noon	- 24	79 6	E <sup>b</sup> S	11·3	62·1	2·9	4·8	85	2	Cicu.		
	4	- 23	- 37	E	9·9	63·3	3·2	5·0	87	3	Cicu.	ENE	
	8	- 13	80 0	E <sup>b</sup> S	9·7	62·7	2·6	4·8	87	2	Ci.	ENE	
	Mn.	- 10	- 31	E <sup>b</sup> S	9·2	62·6	2·4	4·5	82	3	Ci.	ENE	
Aug. 18.	4	74 56	79 47	E	12·0	60·8	2·8	4·5	79	1		ENE	
	8	- 41	80 12	E	13·8	59·5	2·5	4·9	89	0	Ci.	ENE	
	Noon	- 29	- 33										
	12.30	- 27	- 34	E	13·4	57·9	3·4	5·2	90	0	Ci.	ENE	
	4	- 13	- 37	E	9·8	56·9	3·6	5·3	90	0			
	8	73 58	- 42	E	9·3	55·9	3·8	5·1	85	0			
Aug. 19.	Mn.	- 43	- 50	E <sup>b</sup> N	10·2	55·6	3·3	4·9	85	1			m
	4	73 51	81 3	E	10·0	56·4	1·9	4·9	93	0			m
	8	- 45	- 15	E <sup>b</sup> N	5·8	57·1	2·7	5·1	91	0			
	Noon	- 56	- 43	E	9·2	57·8	2·3	4·6	84	0			
	4	74 8	82 10	E <sup>b</sup> S	8·1	59·2	5·3	5·1	76	0			
	8	- 10	- 40	E	9·3	60·4	3·8	5·3	88	0			
Aug. 20.	Mn.	- 24	- 58	E	7·3	61·1	4·8	5·6	87	0			
	4	74 40	83 21	E	5·8	62·3	2·6	5·3	96	0			
	8	- 56	- 41	E	5·3	63·1	3·2	5·4	94	0			
	Noon	- 59	84 23	E <sup>b</sup> N	4·4	63·8	4·8	5·7	89	0			
	4	- 52	85 18	NE <sup>b</sup> N	4·9	63·5	4·3	5·5	89	0			
	8	- 48	- 43	E <sup>b</sup> N	5·2	63·7	5·8	6·2	90	2	Cu.	NE	
Aug. 21.	Mn.	- 48	- 43	E <sup>b</sup> N	4·6	64·9	3·6	5·3	90	0	Cu.		
	4	74 48	85 43	E <sup>b</sup> N	5·0	64·9	3·8	5·5	92	0	Cu.		
	8	- 48	- 48	E <sup>b</sup> N	8·8	65·8	2·5	4·9	89	3	Cu.	NE	
	Noon	- 46	- 33	E <sup>b</sup> N	9·7	66·4	2·0	4·7	89	7	Cu.	NE	
	6	- 46	- 33	ENE	12·2	66·7	1·9	4·8	91	3	Cicu.	NE <sup>b</sup> N	
	8	- 46	- 33	E <sup>b</sup> N	7·2	68·1	2·2	4·8	89	2			
Aug. 22.	Mn.	- 46	- 33	E <sup>b</sup> N	9·0	66·4	1·6	4·6	89	10			
	4	74 46	85 33	NE <sup>b</sup> E	10·4	67·5	-0·2	3·9	87				
	9	- 46	- 33	NE <sup>b</sup> N	8·0	68·2	0·7	3·8	78	8	Cu.	NNE	*°
	10	- 46	- 33				-0·3						
	Noon	- 46	- 33	NE	8·4	68·4	0·7	3·0	63	8	Cu.	N	*°
	8	- 46	- 33	NE	9·8	67·0	-0·7	4·2	96	10			≡*°
Aug. 23.	1	74 46	85 33	NE <sup>b</sup> N	11·2	65·8	-0·7	3·6	83		Cloudy		
	4	- 46	- 33	NE <sup>b</sup> N	8·6	66·6	-0·1	4·0	89	10	Cloudy		
	8	- 46	- 33	NE	13·5	63·6	0·1	4·6	100	10	Cloudy		*°
	11	- 46	- 33	NE	15·0								
	Noon	- 46	- 33	NE <sup>b</sup> E	11·8	61·9	-0·9	3·8	88	10	Cloudy		
	4.30	- 46	- 33	NE <sup>b</sup> E	12·4	61·7	-0·7	4·0	92	10	Str.		
Aug. 24.	8	- 46	- 33	NE <sup>b</sup> E	13·6	60·9	-0·8	4·1	94	10	Str.		
	4	74 46	85 33	NE <sup>b</sup> E	10·8	55·0	-1·2	4·0	94	10	Cloudy		
	8	- 46	- 33	NE <sup>b</sup> E	10·2	57·4	-0·5	4·2	94	7	Cust.		
	4	75 0	- 11	NE <sup>b</sup> E	9·2	55·9	0·1	4·2	90	9	Cust.		
	8	- 10	- 5	NE <sup>b</sup> E	9·7	55·9	0·3	4·4	94	10	Str.		
	Mn.	- 23	84 58	NE <sup>b</sup> E	10·0	55·8	1·3	3·2	62	9	Cust.	NNE	
Aug. 25.	4	75 29	84 57	NE	8·7	56·8	-0·1	4·4	96				
	8	- 24	85 12	ENE	9·4	55·6	0·9	4·3	87	9	Cust.	NE	
	Noon	- 36	- 12	NE <sup>b</sup> E	9·7	53·4	-0·7	4·2	96	8	Cust.	NE	
	4	- 26	- 39	NE <sup>b</sup> E	8·3	56·9	-0·1	4·2	92	2	Cicu.	NE	
	8	- 18	86 17	ENE	7·8	56·8	-0·3	4·1	90	1	Cust.	NE	
	Mn.	- 26	- 21	E <sup>b</sup> N	7·8	57·4	-0·7	4·1	94	1			

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 26.	4	75°22'	86°51'	NE <sup>b</sup> N	8.4	757.5	0.1	4.1	89	2			
	8	- 23	87 44	NE	6.0	57.8	-0.8	3.9	90	4	Cicu.	NNE	
	Noon	- 24	88 30	NE <sup>b</sup> E	8.4	58.7	-1.2	3.8	90	10	Str.		
	4	- 39	- 17	NE <sup>b</sup> E	7.7	59.1	-0.3	3.9	87	7	Cust.	NNE	
	8	- 37	89 13	NE	6.3	59.2	-0.9	4.2	98	7	Str.		* <sup>0</sup>
Aug. 27.	Mn.	- 42	- 55	NE	5.3	59.3	1.1	2.8	57	8	Cust.	NNE	
	4	75 50	90 36	NE	1.6	60.2	-1.5	3.7	90	8	Str.		
	8	- 58	91 27	NE <sup>b</sup> E	3.1	59.6	-2.1	3.6	92	9	Cu.	NW	≡
	Noon	76 6	92 15	ENE	5.6	59.5	-2.7	3.7	98	9			≡
	4	- 12	- 55	ENE	5.0	60.0	-1.8	4.0	100	10			≡
Aug. 28.	8	- 12	93 58	WSW	3.9	59.6	-2.0	4.0	100	8			≡
	Mn.	- 25	94 21	NW <sup>b</sup> W	2.5	58.9	-0.9	4.3	100	10			≡
	4.30	76 33	95 14	NW <sup>b</sup> N	3.7	58.6	-1.1	4.2	100	10			≡
	8	- 35	94 2	NE <sup>b</sup> N	4.3	59.6	-0.8	4.1	94	9	Str.		
	Noon	- 46	- 32	N <sup>b</sup> E	3.8	56.5	-0.3	4.1	92	9	Str.		
Aug. 29.	4	- 52	95 2	N <sup>b</sup> E	2.5	59.1	0.0	4.3	92	3	Cicu. Str.		
	8	- 57	- 5	N <sup>b</sup> W	2.3	58.6	-1.1	3.8	90	6	Cust.		
	Mn.	- 50	94 45	N	2.8	57.7	-1.1	3.8	90	7	Cust.		
	4	76 39	94 7	NW <sup>b</sup> W	1.9	57.5	-0.8	4.1	94	10			* *
	8	- 30	- 20	W <sup>b</sup> S	1.3	57.0	-0.7	4.2	96	10	Snow.sk.		* *
Aug. 30.	Noon	- 27	95 10	WSW	0.9	52.8	-0.2	4.3	94	10	Cu.		* *
	4	- 25	- 30	W <sup>b</sup> S	0.0	56.7	0.0	4.4	98	10	Str.		* *
	8	- 28	96 36		0	55.8	-0.8	4.2	96	8	Cicu.		* *
	Mn.	- 25	- 35		0	55.4	-0.7	4.2	96	10	Cust.		* *
	4	76 25	96 35		0	55.8	-0.6	4.1	92				
Aug. 31.	8	- 25	- 35		0	54.9	0.0	4.1	89	10	Str.		
	Noon	- 25	- 35		0	55.5	0.5	4.5	94	10	Cust.		
	4	- 25	- 35		0	55.7	0.4	4.5	94	10	Str.		
	8	- 25	- 35		0	56.0	-0.2	4.4	98	10	Str.		
	Mn.	- 25	- 35		0	55.8	-0.2	4.4	98	10	Snow.sk.		⊙ *
Sept. 1.	4	76 25	96 35		0	56.0	-0.3	4.5	100	10	Snow.sk.		⊙ ⊙ *
	8	- 25	- 35		0	55.7	0.0	4.3	94	10	Snow.sk.		⊙ *
	Noon	- 25	- 35	NNW	3.8	55.6	-0.1	4.4	96	10	Snow.sk.		⊙ *
	4	- 25	- 35	NNW	4.0	56.2	0.1	4.3	94	10	Snow.sk.		⊙ *
	8	- 25	- 35	N <sup>b</sup> W	4.1	55.3	0.1	4.5	98	10	Snow.sk.		⊙ *
Sept. 2.	Mn.	- 25	- 35	N	4.5	55.3	0.1	4.3	94	10	Snow.sk.		⊙ *
	4	76 25	96 35	N	5.2	54.3	-0.3	4.3	96		Snow.sk.		⊙ *
	8.30	- 25	- 35	N <sup>b</sup> E	5.8	53.8	-0.1	4.4	96		Snow.sk.		⊙ *
	Noon	- 25	- 35	N <sup>b</sup> E	4.1	53.8	0.1	4.3	94		Snow.sk.		⊙ *
	4	- 25	- 35	N	2.9	53.8	-0.1	4.3	94	10	Snow.sk.		⊙ *
Sept. 3.	8	- 25	- 35	N	4.1	53.9	-0.3	4.5	100	10	Snow.sk.		⊙ *
	Mn.	- 25	- 35	N	4.0	53.4	-0.1	4.4	96	10	Snow.sk.		⊙ *
	4	76 25	96 35	N	5.9	53.0	-0.9	4.3	100	10	Snow.sk.		⊙ *
	8	- 25	- 35	NW <sup>b</sup> W	6.2	52.8	-1.0	4.0	94	10			⊙ *
	Noon	- 25	- 35	WNW	5.2	52.9	-0.9	4.0	92	10	Str.		
Sept. 3.	4	- 25	- 35	W <sup>b</sup> N	5.0	53.1	-0.9	4.1	96	10	Snow.sk.		
	8	- 25	- 35	WNW	5.6	53.7	-2.3	3.5	92	10	Str.		
	Mn.	- 28	- 18	NW <sup>b</sup> W	5.0	54.2	-3.1	3.5	96	10	Str.		
	4	76 27	96 0	W	2.8	54.7	-3.7	3.0	85	10			≡
	8	- 23	- 5	SSW	4.3	57.1	-2.4	3.4	89	10	Str.		
Sept. 3.	Noon	- 22	95 32	WSW	2.9	54.9	-1.0	3.7	86	2	Cicu.		

<sup>1</sup> ≡ horiz.<sup>2</sup> Measured the height of snow on one of the W.C. roofs forward = 3.6 cm. At 7 p.m. placed the snow-gauge on the forecastle.<sup>3</sup> Placed the snow-gauge on the forecastle.<sup>4</sup> The snow-gauge is not set out to-day because we are going on to Taimur Sound.

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 3.	4	76° 13'	94° 37'		0.0	755.0	-0.5	4.1	92	10	Str.		
	8	- 11	- 53	WSW	2.9	54.3	-2.6	3.4	89	10	Str.		
	Mn.	- 11	- 53	WSW	3.0	53.3	2.6	3.4	89	8	Str.		
Sept. 4.	4	76 11	94 53	NNE	2.0	52.4	-4.1	2.8	86	8			
	8	- 11	- 53	NNE	5.1	50.9	-2.5	3.4	89	10	Snow.sk.		*
	Noon	- 11	- 53	N <sup>b</sup> W	6.7	52.0	-1.5	3.9	94	10	Snow.sk.		*
	4	- 11	- 53	NNW	4.6	47.0	-0.7	4.0	92	10	Str.		
	8	- 11	- 53	W <sup>b</sup> N	5.8	44.9	-1.2	3.9	92	10	Str.		
	Mn.	- 11	- 53	W	7.4	43.5	-2.0	3.5	90	10	Str.		
Sept. 5.	4	76 11	94 53	W	7.3	42.4	-1.0	3.9	92	10	Str.		
	8	- 11	- 53	W	12.9	42.6	-0.9	4.0	92	10	Str.		*
	Noon	- 11	- 53	WSW	17.0	44.3	-2.4	3.3	85	10	Str.		
	4	- 11	- 53	WSW	13.6	45.0	-2.2	3.2	81	10	Str.		
	8	- 11	- 53	SW <sup>b</sup> W	16.0	44.9	-2.0	3.5	88	10	Str.		
	Mn.	- 11	- 53	SW <sup>b</sup> W	12.6	44.6	-1.1	3.8	90	10			
Sept. 6.	4	76 11	94 53	SW <sup>b</sup> W	13.0	44.5	-2.3	3.4	87	10			
	8	- 11	- 53	SW	13.8	46.6	-2.0	3.2	82	9	Cust.		
	Noon	- 11	- 53	SW <sup>b</sup> S	13.0	47.5	-1.3	3.2	76	8	Cust.		
	4	- 11	- 53	SSW	5.8	47.5	-1.5	3.5	86	6	Cust.		
	8	20	95 12	SE <sup>b</sup> E	3.6	48.0	-0.7	4.4	100	10	Str.		* ⊙ <sup>0</sup>
	Mn.	- 21	96 15	SE <sup>b</sup> S	5.4	46.9	0.3	4.4	94	10			⊙ <sup>0</sup>
Sept. 7.	4	76 32	97 25	SSE	4.2	46.8	0.3	4.2	89	8	Cust.		
	8	- 28	98 13	SE <sup>b</sup> E	5.1	46.5	0.0	4.1	89	2	Cust.		⊙ <sup>0</sup>
	Noon	- 32	- 35	SE <sup>b</sup> S	2.9	45.9	1.5	4.7	90	1	Cu.		
	4	- 35	99 45	SE <sup>b</sup> E	5.1	44.3	1.0	4.4	89	8	Cust.		
	8	- 32	100 38	E	4.3	44.7	0.8	4.3	89	10	Str.		
	Mn.	- 32	- 40	ESE	4.0	44.7	1.3	4.6	91	8	Cust.		
Sept. 8.	4	76 32	100 40	N	2.4	44.0	-0.3	4.0	89	8	Cust.		
	8	- 32	- 40	N	2.7	45.1	-1.0	3.8	88	2	Str.		
	12.30	- 32	- 40	NE	5.6	42.3	0.5	4.5	94	8	Cust.		
	4	- 32	- 40	NE <sup>b</sup> N	7.5	40.8	0.2	4.2	90	10	Cust.		
	8	- 32	- 40	NE	6.5	38.3	0.4	4.6	98	10	Str.		⊙ ⊙
	Mn.	- 32	- 40	NE <sup>b</sup> E	6.0	36.0	1.9	5.0	95	10	Str.		
Sept. 9.	4	76 32	100 40	ESE	4.4	35.6	3.8	5.7	93	10	Cu.		
	8	- 32	- 40	SE	9.7	35.8	4.5	5.7	90	7	Cust.		
	Noon	- 57	- 40	SE <sup>b</sup> S	6.0	37.2	5.0	5.6	86	8	Cust.		
	4	77 19	101 35	S <sup>b</sup> E	6.8	40.3	2.0	4.5	84	5	Cust.		
	8	- 34	102 38	S	8.7	43.0	1.1	4.0	81	0			
	Mn.	- 41	103 7	SE <sup>b</sup> S	3.7	43.0	0.7	4.0	82	0	Str.		
Sept. 10.	4	77 47	104 17	E <sup>b</sup> S	5.7	44.1	-0.8	4.1	94	0			
	8	- 41	105 2	SE <sup>b</sup> E	4.2	44.8	-0.1	4.0	89	3	Cust.		
	Noon	- 36	106 2	S	6.7	45.6	-0.9	3.6	84	2	Cust.		
	4	- 31	- 37	SW <sup>b</sup> S	5.0	48.1	-0.9	4.0	92	10	Snow.sk.		*
	8	- 30	- 46	S <sup>b</sup> W	8.2	50.5	-0.6	4.1	94	10	Str.		*p <sup>0</sup>
	Mn.	- 12	107 40	SW <sup>b</sup> W	7.5	53.2	-1.1	3.6	84	10	Snow.sk.		*p <sup>0</sup>
Sept. 11.	4	76 56	108 32	S <sup>b</sup> W	4.3	55.0	0.9	4.0	92	9	Cust.		
	8	- 57	110 5	S <sup>b</sup> E	4.3	56.1	-0.2	3.6	79	9	Cust.		
	Noon	- 58	111 32	S <sup>b</sup> E	4.2	56.4	-0.4	3.7	83	9	Cust.		
	4	- 59	112 50	SE <sup>b</sup> S	4.3	56.8	-0.7	3.8	86	9	Cust.		
	8	- 50	113 20	SSE	5.8	56.6	-0.5	3.7	83	9	Cust.		
	Mn.	- 31	- 6	SSW	5.3	55.9	0.9	3.8	86	9	Cust.		
Sept. 12.	4	76 17	113 49		0.0	54.9	-1.7	3.4	84	9	Str.		
	8	- 10	- 55		0.0	52.8	-0.5	3.7	83	8	Cust.		
	Noon	- 2	114 12	S	2.5	54.5	-0.7	4.0	92	7	Cust.		

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 12.	4	75° 51'	114° 22'	SSE	2.6	754.2	-0.9	3.8	88	7	Cu.		
	8	- 38	- 32		0.0	54.3	-1.2	3.9	92	7	Cust.		
	Mn.	- 26	115 10	ESE	3.0	54.0	-0.5	4.1	92	10	Ci. Cust.	SW	
Sept. 13.	4	75	115 44	E <sup>b</sup> N	1.3	53.0	-0.1	4.1	90		Cicu.Str.		
	8	- 1	- 30	E <sup>b</sup> N	3.2	53.4	0.1	4.3	92	7	Cust.		
	Noon	74 55	116 0	E <sup>b</sup> N	4.3	53.4	0.2	4.5	96	10	Cust.		
	4	- 58	114 57	ENE	4.0	54.7	0.2	4.2	90	10	Cust.		
	8	- 39	- 42	NE	4.7	55.3	-0.2	4.3	94	10	Cust.		
	Mn.	- 26	115 0	NE	3.1	56.7	0.2	4.0	87	9	Cust.		
Sept. 14.	4	74 26	115 0		0.0	56.2	-0.9	3.9	90	7	Str.		
	8	- 22	113 41	E <sup>b</sup> N	4.3	57.2	-0.5	4.1	92	7	Cu.		
	Noon	- 4	- 57	ESE	4.8	56.8	-1.1	4.2	100	10			≡ ☉ <sup>0</sup> 1
	4	73 51	114 32	E <sup>b</sup> S	6.1	55.3	0.6	4.3	90	6	Cu.		
	8	- 45	- 58	SE <sup>b</sup> E	5.9	53.3	0.8	4.5	92	9	Cu.		
	Mn.	- 48	115 35	SSE	9.2	51.0	0.3	4.2	89	8	Cust.		
Sept. 15.	4	73 45	115 42	SE	9.5	47.6	-0.1	4.3	94		Str.		
	8	- 58	116 30	ESE	8.1	44.9	0.0	4.3	94	10	Str.		
	Noon	- 54	117 0	SW <sup>b</sup> W	8.8	43.9	0.5	4.4	92	10	Str.		
	4	- 54	- 46	SW <sup>b</sup> W	4.8	44.7	0.9	4.3	87	8	Ci. Cust.	S	
	8	- 56	118 47	WSW	5.7	44.6	0.9	4.1	84	10	Cust.		
	Mn.	74 4	119 36	W	6.5	48.3	1.1	3.9	79	9	Cust.		
Sept. 16.	4	74 12	120 21	W	6.2	48.0	0.9	4.8	98	9	Cust.		
	8	- 18	121 8	W	6.4	41.8	1.0	3.7	73	9	Cust.		
	11	- 24	- 53	SW	6.1	40.8	1.1	3.9	79	9	Cust.		*
	4	- 36	123 18	SW	6.8	40.0	-0.1	4.4	96	10	Str.		*
	8	- 43	124 21	SW	3.9	39.3	0.3	4.2	89	9	Cust.		
	Mn.	- 51	125 23	NW	7.0	40.8	-0.1	4.4	96	9	Str.		*
Sept. 17.	4	75 0	126 36	NW <sup>b</sup> W	7.0	43.6	0.0	4.1	89	9	Cust.		
	8	74 53	127 38	WNW	9.4	44.3	-0.3	4.3	96	9	Cust.		
	Noon	- 52	128 44	WNW	9.0	41.3	-0.7	4.1	94	6	Cust.		
	4	75 2	130 0	SW <sup>b</sup> W	6.3	47.1	0.1	3.9	85	7	Cust.		
	8	- 4	- 53	SW	2.8	48.9	-0.2	4.3	94	10	Str.		
	Mn.	74 46	131 22	SW	2.8	50.7	0.1	4.2	90	10	Cu.		
Sept. 18.	4	74 46	131 22	SW <sup>b</sup> S	4.3	50.4	0.4	4.5	96	10	Str.		
	8	- 43	132 43	W <sup>b</sup> N	7.7	51.1	0.6	4.6	96	10	Str.		
	12.30	- 37	133 56	NW <sup>b</sup> W	8.7	53.4	-0.7	4.3	98	5			☉ *
	4	- 51	134 32	NW <sup>b</sup> W	6.4	56.2	-0.4	3.5	78	9	Cust.		4
	8	75 8	135 15	WNW	6.2	58.1	-0.5	3.4	77	8	Cust.		
	Mn.	- 25	134 42	W	2.2	59.5	-0.5	3.7	83	10	Cust.		5
Sept. 19.	4	75 34	134 18	WSW	4.7	59.8	-1.3	3.8	90	10	Cu.		
	8	- 48	- 4	S	7.1	58.7	-0.5	4.3	98	10			≡
	Noon	76 3	- 37	S	7.1	57.3	0.5	4.6	96	10	Cust.		
	4	- 21	135 13	S	7.8	55.8	0.4	4.5	96	10	Str.		
	8	- 40	136 13	S	7.2	55.0	0.3	4.4	94	10	Str.		
















<sup>1</sup> 1:30 p.m. ≡ drifting away. A distinct light-bow in NE<sup>b</sup>N in the fog that was drifting away. The bow extended over  $\frac{3}{4}$  naut. mile, faint tinge of prismatic colours on the outskirts nearer the water, where, on account of the ice it was of an intense white colour. Circ. 10° high.



<sup>2</sup> Just after the observation the clouds gathered; thick in W<sup>b</sup>S; the end of the shower touched the ship. Some snowflakes were falling.

<sup>3</sup> Thick bank of str. in SW<sup>b</sup>S.

<sup>4</sup> ≡ horizon.

<sup>5</sup> Light-bow in the fog in N<sup>b</sup>E.


1893.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 19.	Mn.	76° 59'	136° 58'	SSW	7.6	754.0	1.5	4.6	91	10	Str.		<sup>1</sup>
Sept. 20.	4	77 14	137 43	SSW	7.2	52.9	1.5	4.6	91	7	Cust.		
	8	- 32	138 27	SSW	7.7	53.3	-0.3	4.3	96	10			
	Noon	- 47	- 50	S <sup>b</sup> W	6.0	53.2	-0.3	4.2	94	10			<sup>2</sup>
	4.30	- 52	137 3	S	4.6	53.1	-0.3	4.1	92	7	Cust.		
	8	78 2	136 0	WSW	3.0	54.3	-1.1	4.0	94	10			
Sept. 21.	Mn.	- 8	134 52	SW	2.3	55.7	-1.6	3.8	94	10			
	4	78 15	134 2	SSW	2.3	56.9	-0.9	3.9	90	10			
	8	- 32	133 35	SSE	4.1	57.5	-1.6	3.8	94	10			
	Noon	- 41	- 2	SE	6.9	57.5	-2.8	3.4	92	10	Str.		
	4	- 41	- 0	SSE	5.4	57.5	-2.1	3.6	92	10			
Sept. 22.	8	- 39	- 10	SE <sup>b</sup> S	8.2	57.7	-1.0	4.0	94	10	Str.		
	Mn.	- 42	- 26	SSE	7.3	58.5	-0.8	3.9	90	10	Str.		
	4	78 43	133 45	SE <sup>b</sup> S	9.2	58.8	-0.5	4.1	92	2	Str.		
	8	- 50	132 52	SE <sup>b</sup> S	7.8	60.7	-0.3	3.6	79	2	Cu.		
	12.30	- 49	133 22	SE <sup>b</sup> S	8.3	62.6	-0.6	3.7	85	0			
Sept. 23.	5.30	- 42	- 33	SE <sup>b</sup> E	6.6	64.4	-2.6	3.3	87	0			
	8	- 43	- 30	E <sup>b</sup> S	6.2	64.4	-3.1	3.1	85	0			
	Mn.	- 43	- 25	E <sup>b</sup> N	5.9	63.8	-3.2	2.8	78	10	Cu.		
	4	78 44	133 20	E <sup>b</sup> S	6.0	63.5	-2.9	3.1	85		Cu.		
	8	- 45	- 14	SE <sup>b</sup> E	6.1	63.7	-2.6	3.4	92	10	Str.		
Sept. 24.	Noon	- 46	- 9	ESE	5.6	64.1	-1.6	3.8	94	10			
	4.30	- 47	- 3	SE <sup>b</sup> E	6.2	65.1	-0.9	4.1	96	10			
	8.30	- 47	132 58	SE <sup>b</sup> E	6.4	66.5	-1.2	4.0	94	10			
	Mn.	- 48	- 54	SE <sup>b</sup> E	5.1	67.7	-0.7	3.8	86	10	Str.		
	4	78 49	132 48	SE <sup>b</sup> E	4.4	68.9	-1.0	3.9	92	10			
Sept. 25.	8	- 50	- 43	SE <sup>b</sup> S	4.7	70.3	-1.7	3.8	94	10			
	12.30	- 51	- 37	ESE	3.6	71.3	-2.3	3.4	87	0			
	5	- 51	- 32	NE <sup>b</sup> N	3.0	71.5	-4.8	2.6	84	0			
	8.20	- 51	- 27	E <sup>b</sup> S	3.9	72.1	-5.5	2.5	83	0			
	Mn.	- 51	- 22	E <sup>b</sup> S	2.0	73.5	-2.1	3.3	83	0			
Sept. 26.	4	78 51	132 21	E <sup>b</sup> S	1.4	72.0	-6.7	2.0	73	0			
	8	- 51	- 20	ENE	2.7	72.6	-7.3			10			
	1	- 51	- 18	ESE	3.3	71.9	-4.7	2.7	84	10	Str.		
	4	- 51	- 18	E <sup>b</sup> S	4.2	72.0	-5.9	2.3	80	9	Cust.	N	
	8	- 50	- 17	ESE	4.2	71.7	-6.5	2.2	79	9	Cu.		
Sept. 27.	Mn.	- 50	- 16	SE <sup>b</sup> S	3.1	71.0	-4.7	2.7	86	10	Str.		
	4	78 50	132 15	ESE	3.4	71.4	-4.3	2.7	81	9	Cust.		
	8	- 50	- 14		0.0	71.5	-4.8	2.6	84	9	Cu.		
	Noon	- 50	- 13	ENE	2.2	73.2	-5.7	2.5	85	4	Cust.	NE	
	4	- 50	- 12	NE <sup>b</sup> N	1.4	70.6	-4.0	2.9	84	9	Cust.	NNE	
Sept. 28.	8	- 50	- 11	ESE	2.1	70.8	-8.1	2.1	85	7	Cu.		<sup>3</sup>
	Mn.	- 50	- 9	SE <sup>b</sup> S	2.3	70.3	-4.5	2.6	79	10	Str.		
	4	78 51	132 8	SE <sup>b</sup> S	2.9	69.2	-2.5	3.8	100	10	Str.		
	8	- 52	- 6	S <sup>b</sup> E	2.8	68.1	-2.6	3.2	85	10	Str.		
	Noon	- 52	- 4	S <sup>b</sup> E	6.4	66.3	-1.7	3.3	82	10	Cust.		<sup>4</sup>
Sept. 29.	4	- 53	- 3	S <sup>b</sup> W	6.4	64.4	-2.7	3.0	81	10	Str.		
	8	- 54	- 1	SW <sup>b</sup> S	9.0	62.3	-3.1	2.8	78	10	Str.		
	Mn.	- 54	- 0	S <sup>b</sup> W	9.7	58.8	-1.7	3.6	90	10	Str.		*

<sup>1</sup> Phosphorescence in the water.<sup>2</sup>  horizon.<sup>3</sup> Double .<sup>4</sup> 2 p. m. placed the snow-gauge on the ice.



1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 28.	4	78°55'	131°58'	S <sup>b</sup> W	8.4	756.1	-1.1	3.8	90	10	Str.		
	8	- 56	- 57	SSW	11.0	54.6	-0.9	3.9	92	10	Str.		*
	1	- 56	- 55	SW	9.0	54.1	-0.8	4.2	98	10	Str.		*
	4	- 57	- 54	WSW	7.2	55.0	-0.9	3.8	88	10	Str.		*
	8	- 57	- 53	NW <sup>b</sup> W	5.8	53.4	-3.0	3.0	83	10	Str.		
	Mn.	- 58	- 51	W <sup>b</sup> S	4.1	59.3	-3.5	3.0	87	10	Str.		
Sept. 29.	4	78 59	131 49	W <sup>b</sup> S	3.9	60.9	-2.2	3.4	87	10	Str.		
	8	- 59	- 48	SW <sup>b</sup> W	4.3	61.6	-3.2	2.9	80	10	Str.		
	Noon	79 0	- 46	SW <sup>b</sup> W	3.3	62.5	-3.2	3.1	87	7	Cust.		
	4	78 59	- 54	S <sup>b</sup> W	4.2	62.0	-3.9	2.8	82	10	Str.		
	8	- 59	132 4	SSE	5.2	61.7	-3.5	3.0	87	10	Str.		
	Mn.	- 59	- 13	SW <sup>b</sup> S	3.6	58.8	-0.6	3.3	75	10			*
Sept. 30.	4	78 58	132 22	S <sup>b</sup> W	2.2	57.7	-3.1	3.2	89	10			
	8	- 58	- 32	N <sup>b</sup> E	0.0	59.9	-4.4	2.9	88	8	Cu.	N	<sup>1</sup>
	Noon	- 58	- 41	NW <sup>b</sup> W	3.5	62.2	-3.8	3.0	87	10	Cust.		* m <sup>2</sup>
	4.15	- 57	- 51	NW <sup>b</sup> N	2.3	64.4	-7.7	2.2	86	10°			m <sup>3</sup>
	8	- 57	133 0	SW <sup>b</sup> S	2.5	65.3	-12.5	1.5	88	0			m
	Mn.	- 56	- 9	SW <sup>b</sup> S	2.9	64.7	-10.9	1.5	79	10			
Oct. 1.	4	78 56	133 19	SW <sup>b</sup> W	6.3	61.8	-4.0	2.9	87	10			m
	8.15	- 56	- 29	SW <sup>b</sup> S	12.2	59.4	-1.7	3.8	96	10	Str.		⊙ *
	Noon	- 55	- 38	SW <sup>b</sup> W	10.2	57.7	-1.0	4.0	94	10	Str.		
	4	- 55	- 47	W <sup>b</sup> S	8.1	56.7	-0.6	4.3	98	10	Str.		
	8	- 55	- 57	W <sup>b</sup> S	5.1	56.4	-0.5	4.4	100	10	Str.		
	Mn.	- 54	134 6	W <sup>b</sup> S	4.5	55.3	-0.7	4.4	100	10			
Oct. 2.	4	78 54	134 15	W <sup>b</sup> S	7.5	54.0	-0.4	4.4	98	10			m
	8	- 53	- 25	W <sup>b</sup> S	9.1	53.5	-1.2	3.7	88	10	Str.		
	Noon	- 53	- 34	W <sup>b</sup> S	9.2	53.4	-1.4	3.6	88	10	Str.		
	8	- 52	- 53	NNW	8.1	58.8	-15.3	1.0	68	10	Cu. Cust.		<sup>4</sup>
Oct. 3.	4	78 51	135 3	NW	5.5	60.6	-15.9	1.0	74	0			
	8	- 50	- 7	NW <sup>b</sup> W	6.5	61.2	-13.2	1.3	80	10	Cust.		
	Noon	- 49	- 11	W <sup>b</sup> N	9.2	61.5	-12.3	1.3	79	10	Cust.		
	4	- 48	- 14	W	9.2	62.6	-11.6	1.4	77	10	Str.		*
	8	- 47	- 18	WNW	10.8	63.3	-11.0	1.5	78	10	Str.		*
	Mn.	- 46	- 22	WNW	7.8	63.2	-10.2	1.5	73	10	Str.		*
Oct. 4.	4	78 46	135 26	WNW	8.1	62.9	-10.6	1.5	77	10	Str.		
	8	- 45	- 30	WNW	9.0	62.0	-13.2	1.3	80	10	Str.		*
	Noon	- 44	- 33	W <sup>b</sup> N	7.5	60.9	-11.9	1.3	76	10	Str.		*
	4	- 43	- 37	WSW	7.4	59.3	-10.7	1.5	77	10	Snow.sk.		*
	8	- 42	- 41	WSW	8.4	56.5	-7.4	1.0		10	Snow.sk.		*
	Mn.	- 41	- 45	WSW	7.1	54.6	-7.4			10	Snow.sk.		*
Oct. 5.	4	78 40	135 49	W <sup>b</sup> N	4.2	53.3	-11.7	1.4	79	10			*
	8	- 39	- 52	NW <sup>b</sup> W	2.8	52.4	-17.7	0.9	83	2	Cist.		<sup>5</sup>
	Noon	- 38	- 56	NW <sup>b</sup> N	7.2	52.9	-12.3	1.3	76	7	Cust.		
	4	- 37	136 0	NW <sup>b</sup> N	6.3	54.3	-9.7	1.7	81	10	Str.		
	8.15	- 36	- 4	NW <sup>b</sup> N	6.4	55.0	-18.4	0.8	77	0			<sup>6</sup>
	Mn.	- 35	- 6	W <sup>b</sup> N	6.7	53.4	-14.9	1.1	80	10	Snow.sk.		*

<sup>1</sup> 10 a. m. Took in the snow-gauge, put it out again 11 a. m. The snow that fell during the night was next to nothing.

<sup>2</sup>  only light colour.

<sup>3</sup> 

<sup>4</sup> 

<sup>5</sup> A low blue-grey bank of clouds from E—W. Above bordered with small, fine, white cu.

<sup>6</sup> A vertical column of light above the moon.

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Oct. 6.	4	78° 34'	136° 4'	NW <sup>b</sup> W	8.5	754.4	-15.2	1.0	75				
	8	- 33	- 3	NW	8.4	56.7	-20.1	0.8	94	0			
	12.15	- 32	- 2	NW <sup>b</sup> N	7.9	57.1	-19.3	0.7	75	10	Str.		
	5.30	- 30	- 1	NW <sup>b</sup> N	8.8	58.8	-19.0	0.7	76	10	Str.		*
	9.30	- 29	- 0	NW <sup>b</sup> N	5.8	59.0	-21.0	0.7	80	0			
	12.30	- 29	- 0	NW <sup>b</sup> W	7.0	59.0	-24.4	0.5	82	0			
Oct. 7.	4	78 28	136 1	W <sup>b</sup> N	6.3	58.4	-21.8	0.5	72	6			
	8	- 28	- 1	NW <sup>b</sup> W	9.0	57.9	-19.7			10	Cust.		
	12.30	- 27	- 2	NW <sup>b</sup> N	8.0	57.7	-17.8	0.9	78	10	Cust.		
	4	- 27	- 2	NW <sup>b</sup> N	7.2	58.4	-19.5	0.8	81	0	Cust.		
	8	- 26	- 2	NW <sup>b</sup> N	7.5	58.7	-20.4	0.7	78	10			
	Mn.	- 26	- 3	NW <sup>b</sup> W	5.9	59.7	-19.2	0.9	88	3			
Oct. 8.	4	78 25	136 3	NW <sup>b</sup> N	5.1	58.0	-19.3	0.7	81	6			
	8	- 25	- 4	N <sup>b</sup> W	4.3	58.2	-17.1	0.9	79	0			
	Noon	- 24	- 4	N	5.8	59.7	-16.4	1.0	83	8	Cust.		
	4	- 23	- 4	NW <sup>b</sup> N	6.8	59.1	-17.6	0.9	78	9	Cu.		
	8	- 23	- 5	NW <sup>b</sup> N	3.5	59.1	-17.7	0.8	73	0			
	Mn.	- 22	- 5	N <sup>b</sup> W	6.5	59.0	-16.7	1.0	85	10			
Oct. 9.	4	78 22	136 4	N <sup>b</sup> W	5.7	58.4	-14.2	1.2	80	0			
	8	- 22	- 4	N <sup>b</sup> W	5.6	60.1	-13.4	1.3	80	0			
	2	- 21	- 4	N <sup>b</sup> E	4.2	60.9	-14.9	1.2	85	8	Cust.		
	5	- 21	- 3	N <sup>b</sup> E	2.8	61.9	-14.4	1.1	80	10	Str.		*
	8	- 21	- 3	N <sup>b</sup> W	1.9	62.1	-15.1	1.0	75	10	Str.		*
	Mn.	- 20	- 3	NW <sup>b</sup> W	3.3	62.4	-13.7	1.2	81	10			
Oct. 10.	4	78 20	136 3	NW <sup>b</sup> W	3.0	62.2	-13.9	1.2	81	10			
	8.15	- 19	- 2	NW <sup>b</sup> N	5.4	60.9	-14.3	1.2	80	10	Str.		*
	12.15	- 19	- 2	NW <sup>b</sup> W	7.9	60.3	-14.1	1.2	81	0			
	4	- 19	- 2	NW <sup>b</sup> W	6.8	59.4	-14.7	1.1	80	10	Snow.sk.		*
	8	- 18	- 1	WNW	3.5	59.6	-15.9	1.0	74	10	Str.		
	Mn.	- 18	- 1	NW <sup>b</sup> W	6.4	60.3	-15.7	1.1	79	10	Str.		
Oct. 11.	4	78 17	136 1	NW <sup>b</sup> W	5.8	62.0	-15.5	1.0	74	3	Str.		
	8	- 17	- 0	NW <sup>b</sup> N	6.1	63.6	-18.4	0.8	77	0			
	Noon	- 17	- 0	N <sup>b</sup> W	7.2	65.5	-19.8	0.8	88	0			
	4	- 16	135 59	NW <sup>b</sup> N	7.4	67.6	-20.2	0.7	82	0			
	8.15	- 16	- 59	NW <sup>b</sup> N	6.5	69.0	-21.3	0.7	82	0			
Oct. 12.	4	78 15	135 59	NW <sup>b</sup> N	5.6	70.2	-16.9	1.1	89	0			
	8	- 15	- 58	NW <sup>b</sup> N	5.2		-18.7	0.9	86	0			
	Noon	- 14	- 58	NW <sup>b</sup> N	5.5	70.2	-17.3	1.0	88	0			
	4	- 14	- 58	NW <sup>b</sup> N	5.2	72.8	-14.7	1.4	94	10	Str.		
	8	- 14	- 57	NW <sup>b</sup> N	2.4	73.8	-14.5	1.3	90	9			m
	Mn.	- 14	- 57	N <sup>b</sup> W	2.7	74.3							
Oct. 13.	4	78 14	135 58	N <sup>b</sup> W	2.5	72.2							
	8	- 14	- 59	N <sup>b</sup> W	2.7	72.4	-20.8	0.7	87	0			2
	2	- 14	- 59	E <sup>b</sup> S	2.8	72.9	-18.2			0			3
	8	- 15	136 0	SE <sup>b</sup> E	2.9	73.6	-20.5	0.7	80	0			
	Mn.	- 15	- 1	E <sup>b</sup> S	3.0	75.3	-20.4	0.7	82	0			
Oct. 14.	4	78 15	136 2	SE <sup>b</sup> S	3.2	74.3	-20.6	0.7	82	10	Str.		
	8	- 15	- 2	S <sup>b</sup> E	2.4	75.6	-19.2	0.8	83	10	Str.		
	12.15	- 15	- 3	S <sup>b</sup> E	2.9	75.0	-20.4			10	Str.		

<sup>1</sup> 2 mock-suns. Placed the thermometer-screen on the ice.<sup>2</sup> The thermometer-screen taken on board.<sup>3</sup> p. m. The snow-gauge was taken in this morning; by an accident the contents were lost, but probably the measurement was not to be relied on, however, because the snowfalls were mostly accompanied by wind, and the contents of the snow-gauge were not in proportion to the quantity that fell.

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Oct. 14.	4.30	78° 16'	136° 3'	SE <sup>b</sup> S	1.5	774.5	-23.3	0.6	81	0			
	8	- 16	- 4	SSE	2.8	74.6	-24.1	0.5	81	0			
	Mn.	- 16	- 5		0	74.5	-23.9	0.5	81	0			
Oct. 15.	4	78 16	136 5		0	73.7	-23.3	0.6	83	0			
	8	- 16	- 6	S <sup>b</sup> E	2.4	73.0	-21.8	0.7	82	0			
	Noon	- 17	- 6	S <sup>b</sup> E	3.4	72.3	-19.4	0.8	83	0			
	4.15	- 17	- 7	S <sup>b</sup> W	2.9	71.9	-19.5	0.8	83	10	Str.		
	8	- 17	- 8	W <sup>b</sup> S	3.5	71.5	-20.0	0.8	84	10			m
	Mn.	- 17	- 8	S <sup>b</sup> W	3.5	70.1	-19.0	0.8	84				
Oct. 16.	4	78 17	136 9		0	69.3	-20.6	0.7	85	0			
	8	- 18	- 9	S <sup>b</sup> W	1.6	68.7	-18.0	0.9	86	0			
	Noon	- 18	- 10	S <sup>b</sup> W	1.2	67.8	-16.0	1.1	86	0			
	4	- 18	- 11	S <sup>b</sup> W	2.5	66.9	-15.9	1.2	88	10	Str.		
	8	- 18	- 11	S <sup>b</sup> W	4.7	66.1	-15.1	1.2	89	10	Str.		
	Mn.	- 18	- 12	SW <sup>b</sup> W	5.3	65.1	-14.5	1.3	90	10			
Oct. 17.	4	78 19	136 12	SW <sup>b</sup> W	2.6	63.8	-14.1	1.4	92				
	8	- 19	- 13	SW <sup>b</sup> W	2.7	62.5	-14.8	1.3	90	10	Str.		
	Noon	- 19	- 14	SW <sup>b</sup> W	2.9	61.6	-13.6	1.4	91	10	Str.		
	4	- 19	- 14	SW <sup>b</sup> W	3.5	59.4	-14.7	1.3	90	10	Str.		
	8	- 19	- 15	SW <sup>b</sup> W	2.6	58.8	-18.8	0.9	89	0			
	Mn.	- 19	- 15		0	58.4	-20.0	0.8	87	0			
Oct. 18.	4	78 19	136 15	SW <sup>b</sup> W	3.9	58.6	-21.0	0.7	87	4	Str.		
	8	- 19	- 15	SW <sup>b</sup> W	2.7	58.1	-25.5		86	0			
	12.15	- 19	- 16	SW <sup>b</sup> W	2.0	57.6	-25.6		85	10	Str.		
	4	- 19	- 16	SW <sup>b</sup> W	3.4	57.1	-23.5	0.6	84	10	Str.		
	8	- 19	- 16	SW <sup>b</sup> W	2.0	56.6	-20.2	0.8	86	10	Str.		
	Mn.	- 19	- 16	SW <sup>b</sup> W	1.9	55.5	-18.9	0.9	86	5	Str.		
Oct. 19.	4	78 19	136 16	SW <sup>b</sup> W	4.2	54.8	-19.8	0.8	86	10			
	8	- 19	- 16	S <sup>b</sup> E	3.7	53.4	-20.5	0.8	87	10	Str.		
	Noon	- 19	- 17	S <sup>b</sup> E	2.0	52.6	-23.6	0.6	87	0			
	4	- 19	- 17	NE <sup>b</sup> E	2.8	51.8	-20.5	0.8	87	10	Str.		
	8.30	- 19	- 17	N <sup>b</sup> E	2.9	51.5	-23.5	0.6	88	0			
	Mn.	- 19	- 15	N <sup>b</sup> E	3.2	51.4	-23.9	0.6	90	0			
Oct. 20.	4	78 19	136 13	N <sup>b</sup> E	4.5	51.4	-23.0	0.6	83	0	Str.		
	8	- 19	- 11	N <sup>b</sup> E	5.8	51.7	-22.4	0.6	87	10	Str.		
	Noon	- 19	- 9	N <sup>b</sup> E	5.1	52.6	-19.4	0.8	88	10	Str.		*
	4	- 19	- 7	N <sup>b</sup> E	5.8	53.2	-15.8	1.2	89	10	Str.		*
	8	- 19	- 4	N <sup>b</sup> E	5.0	53.8	-14.8	1.3	90	10	Str.		*
	Mn.	- 19	- 2	NNE	5.7	54.1	-20.8	0.7	89	10	Str.		
Oct. 21.	4	78 19	136 0	N <sup>b</sup> E	4.2	53.5	-20.0	0.7	83	10			*
	8	- 19	135 58	N <sup>b</sup> E	5.5	54.0	-18.5	0.9	87	10	Str.		*
	Noon	- 18	- 56	N <sup>b</sup> E	3.7	53.4	-19.0	0.9	86	10	Str.		
	4	- 18	- 54	NE <sup>b</sup> N	3.7	53.7	-17.4	0.9	86	10	Str.		
	8	- 18	- 52	NE <sup>b</sup> N	2.2	53.5	-15.3	1.2	87	10	Str.		*
	Mn.	- 18	- 50	NE <sup>b</sup> N	2.8	53.6	-15.3	1.1	88	10	Str.		
Oct. 22.	4	78 18	135 48	NE <sup>b</sup> N	2.2	53.8	-18.0	1.0	87	0			
	8	- 18	- 46	E <sup>b</sup> N	1.8	54.4	-22.3	0.6	85	0			
	Noon	- 18	- 44	NE <sup>b</sup> E	1.8	55.3	-22.9	0.6	85	0	Cicu.		3
	4	- 18	- 42		0	56.2	-21.0	0.7	86	9	Cu.		4

<sup>1</sup> 6 and 7 p. m. \*°.<sup>2</sup> Bank of clouds on the horiz.<sup>3</sup> Cicu. Str. horiz. In W cicu. Low banks of cust on the horiz.<sup>4</sup> 1 p. m. Ci. in WSW.

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Oct. 22.	8	78° 18'	135° 40'		0	757.0	-18.8	0.9	86	10	Cust.		
	Mn.	- 18	- 37		0	57.7	-16.9	1.0	87	10	Cu.		
Oct. 23.	4	78 17	135 35		0	58.2	-17.8	1.0	87	10	Str.		
	8	- 17	- 33		0	59.5	-19.4	0.8	87	6	Cust.		
	Noon	- 17	- 31	E <sup>b</sup> N	1.6	60.1	-22.8	0.6	85	9	Cust.		
	8	- 17	- 27	NE <sup>b</sup> N	2.2	61.7	-24.3	0.5	85	6	Cu.		
	Mn.	- 18	- 29		0	62.1	-21.2	0.7	86	3	Cu.		
Oct. 24.	4	78 19	135 32	NE <sup>b</sup> N	1.5	62.5	-22.9	0.6	86	2	Cu.		
	8	- 20	- 34	E <sup>b</sup> N	1.8	63.3	-24.7	0.5	85	0			
	Noon	- 20	- 37	SE <sup>b</sup> E	1.6	63.7	-26.1		83	0			
	4	- 21	- 39	SW <sup>b</sup> W	1.8	63.7	-25.2		84	10°			m
	8	- 22	- 42	W <sup>b</sup> S	2.1	63.6	-25.3		83	10°			m <sup>1</sup>
	Mn.	- 23	- 45	WSW	3.8	62.8	-21.2	0.7	84	10			m
Oct. 25.	4	78 24	135 47	WSW	3.8	61.8	-20.2	0.8	85	8			m
	8	- 25	- 50	SW <sup>b</sup> W	6.0	60.1	-18.1	0.9	86	10	Str.Sn.sk.		
	Noon	- 26	- 52	SW <sup>b</sup> S	6.9	57.6	-16.7	1.0	87	10	Str.		
	4	- 27	- 55	SW <sup>b</sup> S	7.8	54.7	-15.4	1.1	88	10	Str.		
	8	- 27	- 58	SW <sup>b</sup> W	7.2	53.0	-15.8	1.2	88	10	Cust.		2
	Mn.	- 28	136 0	S <sup>b</sup> W	4.9	51.4	-17.8	1.0	88	0			
Oct. 26.	4	78 29	136 3	WSW	7.3	51.0	-16.9	1.1	88	0			
	8	- 30	- 5	S <sup>b</sup> E	4.2	52.2	-19.7	0.8	87	0			
	Noon	- 31	- 8	S <sup>b</sup> E	4.4	53.1	-20.9	0.7	85	1	Cust.		
	4	- 32	- 11	SE <sup>b</sup> S	3.8	55.8	-21.4	0.7	85	0			
	9.30	- 31	- 10	SE <sup>b</sup> S	3.9	59.6	-23.0	0.6	84	0			
Oct. 27.	4	78 30	136 7	SE <sup>b</sup> S	5.4	63.4	-15.9	1.1	87	0			
	8	- 29	- 4	NE <sup>b</sup> N	3.9	65.7	-18.3	0.9	86	9	Cu.		3
	Noon	- 28	- 2	N <sup>b</sup> E	5.5	67.4	-19.4		86	0			
	4	- 27	- 0	NE <sup>b</sup> N	4.7	69.2	-21.0	0.7	83	0			
	8	- 26	135 58	NE	4.2	71.2	-22.6	0.6	87	0			
	Mn.	- 25	- 56	E <sup>b</sup> S	4.2	72.4	-22.9	0.6	87	0			
Oct. 28.	4	78 24	135 54	NE <sup>b</sup> N	3.2	73.1	-22.4	0.6	87	0			
	8	- 23	- 51	NE	3.1	73.3	-22.3	0.6	85	10	Str.Sn.sk.		
	Noon	- 21	- 49	NE	3.6	73.4	-23.3	0.6	85	10	Str.Sn.sk.		
	4	- 20	- 47	NE	3.7	72.9	-24.6	0.5	85	0			
	8	- 20	- 45	NW <sup>b</sup> W	3.9	72.0	-24.4	0.5	86	10°			m <sup>4</sup>
	Mn.	- 19	- 44	NW <sup>b</sup> W	4.4	70.6	-23.3	0.6	87	10°			m
Oct. 29.	4	78 19	135 42	NW <sup>b</sup> W	5.4	68.7	-23.0	0.6	85	10			m
	8	- 18	- 41	NW <sup>b</sup> W	6.8	67.3	-23.3	0.6	85	10	Str.Sn.sk.		
	Noon	- 18	- 39	NW <sup>b</sup> W	6.7	66.1	-21.0	0.7	85	10°			m
	4	- 17	- 38	N	6.8	65.4	-20.4	0.8	84	10	Str.		*
	8	- 17	- 36	N <sup>b</sup> W	6.1	65.0	-21.3	0.7	85	10	Str.		
	Mn.	- 16	- 35	N <sup>b</sup> W	6.0	65.9	-20.5	0.8	85				
Oct. 30.	4	78 16	135 34	N <sup>b</sup> W	4.6	67.1	-25.5	0.5	84	0			
	8	- 15	- 32	N <sup>b</sup> E	3.6	68.0	-27.3	0.4	83	0			
	Noon	- 15	- 31	N <sup>b</sup> E	5.2	68.1	-27.5	0.4	83	0			
	4	- 14	- 29	N <sup>b</sup> E	5.6	68.2	-23.0	0.4	83	0			
	8	- 13	- 27	NW <sup>b</sup> N	5.4	68.1	-27.0	0.4	83				
	Mn.	- 12	- 24	NW <sup>b</sup> N	6.3	67.3	-26.0	0.5	82				

<sup>1</sup> U 8.30 p. m. U.<sup>2</sup> Part of U.<sup>3</sup> Upper half U.<sup>4</sup> 3 U and the upper half of U.

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Oct. 31.	4	78° 11'	135° 21'	NW <sup>b</sup> N	6.4	766.3	-26.2	0.4	83	0			
	8	- 10	- 18	N <sup>b</sup> W	7.2	65.2	-23.5	0.5	83	0			
	Noon	- 10	- 14	N <sup>b</sup> W	7.6	63.9	-25.9	0.5	83	0			
	4	- 9	- 11	N <sup>b</sup> W	7.7	63.2	-23.0	0.6	83	8	Str.		
	8	- 8	- 8	NW <sup>b</sup> N	10.4	62.3	-22.6	0.6	82	10	Str.		
	Mn.	- 7	- 5	NW <sup>b</sup> N	7.1	62.3	-24.5	0.5	81	10	Str.		
Nov. 1.	4	78 6	135 2	NNW	7.7	62.5	-23.8	0.5	79	10	Str.		m
	8	- 5	134 59	N <sup>b</sup> E	6.4	62.5	-23.0	0.5	79	10	Snow.sk.		
	Noon	- 4	- 56	N <sup>b</sup> E	4.5	62.7	-25.1	0.5	81	8	Str.		
	4	- 3	- 52	N <sup>b</sup> E	4.8	62.8	-26.8	0.4	81	0			
	8	- 3	- 51	N <sup>b</sup> E	3.3	62.7	-29.5	0.3	79				
	Mn.	- 3	- 52	NE <sup>b</sup> N	3.3	62.7	-30.5	0.3	78				
Nov. 2.	4	78 2	134 52	NE <sup>b</sup> N	3.7	62.8	-30.2	0.3	77	0			
	8	- 2	- 53	N <sup>b</sup> E	4.0	62.4	-31.0	0.3	77	0			
	Noon	- 2	- 53	N <sup>b</sup> E	3.5	62.1	-31.0	0.3	77	0			
	4	- 2	- 54	N <sup>b</sup> E	3.4	61.5	-30.7	0.3	78	0			
	8	- 2	- 54		0	61.1	-30.0	0.3	79	0			
	Mn.	- 2	- 55	SE <sup>b</sup> S	1.8	60.5	-30.7	0.3	79				
Nov. 3.	4	78 2	134 55	SE <sup>b</sup> S	2.5	60.7	-31.3	0.3	77	0			
	8	- 2	- 56		0	62.7	-33.0	0.2	77	0			
	Noon	- 2	- 56		0	64.5	-33.8	0.2	76	0			
	4	- 1	- 57		0	65.9	-33.2	0.2	77	0			
	8	- 1	135 0		0	66.7	-33.0	0.2	77	0			
	Mn.	- 1	- 8	WSW	5.5	66.1	-29.1	0.3	79	0			
Nov. 4.	4	78 0	135 15	WSW	7.2	64.6	-25.7	0.5	79	4			
	8.15	- 0	- 22	SW <sup>b</sup> W	6.2	63.9	-23.0	0.6	83	6	Str.		
	Noon	77 59	- 30	W <sup>b</sup> N	4.0	64.3	-21.0	0.7	85	0			
	4	- 59	- 37	W <sup>b</sup> N	3.8	64.8	-23.8	0.5	83	0			
	8	- 58	- 45	W <sup>b</sup> N	7.2	65.6	-23.5	0.5	83	0			
	Mn.	- 58	- 52	W <sup>b</sup> N	6.9	65.1	-23.8	0.5	85	0			
Nov. 5.	4	77 57	136 0	W <sup>b</sup> N	6.3	64.4	-22.2	0.6	82	0			
	8.30	- 57	- 8	W <sup>b</sup> N	6.7	63.2	-21.6	0.5	73	0			
	1	- 56	- 16	W <sup>b</sup> S	7.2	62.2	-21.0	0.6	74	10	Cust.		
	4.30	- 56	- 23	WSW	7.5	61.7	-21.3	0.6	74	0			
	8	- 55	- 29	W <sup>b</sup> S	6.7	61.2	-22.6	0.6	75	0			
	Mn.	- 55	- 37	W	7.8	60.5	-19.4	0.7	78	0			
Nov. 6.	4	77 54	136 44	W <sup>b</sup> N	7.2	60.4	-17.5	0.7	79	0			
	8.15	- 54	- 52	SW <sup>b</sup> W	7.4	59.7	-19.5	0.8	79	9	Cu.		
	Noon	- 53	- 59	WSW	11.8	57.7	-19.5	0.7	80	10	Str.		
	4.15	- 53	137 7	SW	12.4	52.0	-17.6	0.8	79	10	Str.		
	8	- 52	- 14	SW	15.3	45.9	-16.1	1.1	85	10	Str.		
	Mn.	- 52	- 21	SW	12.3	40.9	-13.5	1.3	84	10			
Nov. 7.	4	77 52	137 29	SW	12.6	37.1	- 9.8			10			
	8	- 51	- 36	W <sup>b</sup> S	17.6	35.5	- 6.1	2.6	90	10	Cu.		
	Noon	- 51	- 44	W	16.2	36.5	- 6.3			10	Str.		
	4	- 50	- 51	NW <sup>b</sup> N	10.4	42.7	-15.3			10	Str.		
	8	- 50	- 55	N <sup>b</sup> W	8.4	48.9	-22.8	0.5	74	0			m
	Mn.	- 51	- 55	NW <sup>b</sup> N	6.9	54.3	-26.3	0.4	75	0			
Nov. 8.	4	77 51	137 54	W	4.9	58.9	-29.9	0.3	73	0			2
	8	- 51	- 54	N <sup>b</sup> W	4.6	62.5	-30.5	0.3	72	0			
	Noon	- 52	- 54	N <sup>b</sup> E	2.2	64.5	-31.2	0.2	73	0			

<sup>1</sup> 6, 7, 8 p. m. and Mn. Driving snow from the earth, even in the crow's nest, proved by a sample to contain salt.<sup>2</sup> 5 p. m. Moved the thermometer-screen to the after deck on account of the shaking of the wind.

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m p.s.					Am.	Form.	Dir.	
Nov. 8.	4	77° 52'	137° 53'	SE <sup>b</sup> E	3·2	765·2	-30·6	0·3	73	10°			m
	8	- 53	- 53	SE <sup>b</sup> E	5·7	64·9	-27·2	0·4	76	10			m
	Mn.	- 53	- 53	SE <sup>b</sup> E	7·2	63·2	-24·4	0·5	78	10	Str.		
Nov. 9.	4	77 53	137 52	SE <sup>b</sup> S	6·6	62·7	-21·6	0·7	83	10	Str.		
	8	- 54	- 52	SE <sup>b</sup> E	5·3	62·8	-21·7	0·7	82	0			
	Noon	- 54	- 52	SE <sup>b</sup> E	5·7	63·7	-21·3	0·7	84	0			
	4	- 55	- 51	S <sup>b</sup> E	6·2	63·8	-20·2	0·9	86	10	Str.		
	8	- 55	- 51	S <sup>b</sup> E	4·9	63·2	-15·0	1·4	88	10	Str.		
	Mn.	- 55	- 51	SSW	7·3	61·8	-11·3	1·5	89	10	Str.		
Nov. 10.	4	77 56	137 50	SSW	5·4	60·7	-15·6	1·1	84	5	Str.		
	8	- 56	- 50	S <sup>b</sup> W	5·4	60·2	-19·1	0·8	83	0			
	Noon	- 57	- 50	SW <sup>b</sup> W	3·8	60·3	-20·0	0·7	83	0			
	4	- 57	- 49	S <sup>b</sup> W	3·9	59·9	-18·8	0·8	83	10°			m
	8	- 57	- 50	S <sup>b</sup> W	3·5	59·9	-16·9	1·0	85	0			
	Mn.	- 58	- 52	S	3·2	59·3	-16·1	1·1	87				
Nov. 11.	4	77 58	137 54	S <sup>b</sup> E	4·2	58·4	-17·0	0·9	76	0			
	8	- 58	- 56	S <sup>b</sup> W	4·4	58·4	-18·1	0·9	85	10°	Str.		
	Noon	- 58	- 58	S <sup>b</sup> W	4·2	57·8	-15·0			10	Str.		
	4	- 59	138 0	S	4·8	56·3	-13·7			10	Str.		
	8	- 59	- 2	S <sup>b</sup> E	4·4	54·7	-14·2			10	Str.		2
	Mn.	- 59	- 4	S <sup>b</sup> E	4·8	52·4	-14·1	1·3	87	10			m
Nov. 12.	4	77 59	138 6	S <sup>b</sup> E	3·7	51·8	-13·4	1·5	91	0			
	8.15	78 0	- 8	SSW	9·4	51·3	-16·3	1·0	83	10°			m
	Noon	- 0	- 10	SSW	10·4	52·0	-18·6	0·8	83	10	Str.		*
	4	- 0	- 12	S <sup>b</sup> E	4·8	53·6	-21·8	0·7	80	0			
	8	- 1	- 14	S <sup>b</sup> E	4·0	51·7	-18·6	0·8	79	0			
	Mn.	- 1	- 16	S <sup>b</sup> E	6·8	50·1	-15·4	1·0	78	0			
Nov. 13.	4	78 1	138 18	S <sup>b</sup> W	2·9	50·8	-17·0	1·9	79	10	Str.Sn.sk.		*
	8	- 1	- 20	SW <sup>b</sup> S	3·6	52·1	-19·7	0·8	86	10	Str.		3
	12.15	- 2	- 22	W <sup>b</sup> N	4·2	54·1	-23·4	0·6	86	0			
	4	- 2	- 24	SW <sup>b</sup> W	3·0	56·8	-25·2	0·5	83	0			
	8	- 3	- 26		0	58·1	-23·1	0·6	84	10	Str.		*
	Mn.	- 4	- 28	W <sup>b</sup> S	2·2	59·2	-21·4	0·7	86	10			
Nov. 14.	4	78 5	138 30	W <sup>b</sup> N	3·0	59·9	-23·7	0·5	83	0			
	8	- 5	- 32	W <sup>b</sup> S	3·0	62·2	-25·3	0·5	83	0			
	Noon	- 6	- 34	SW <sup>b</sup> S	4·0	63·7	-26·0	0·5	82	0			
	4	- 7	- 36	SW <sup>b</sup> S	4·6	64·7	-23·8	0·5	83	0			
	8	- 8	- 39	SW <sup>b</sup> S	4·9	64·1	-22·3	0·6	86	0			
	Mn.	- 9	- 41	S <sup>b</sup> E	2·7	62·8	-22·9	0·6	87	0			
Nov. 15.	4	78 10	138 43	S <sup>b</sup> W	6·6	61·7	-21·2	0·7	88	0			
	8	- 11	- 45	S <sup>b</sup> E	11·8	59·6	-19·5	0·8	89	0			
	Noon	- 12	- 47	S <sup>b</sup> E	9·0	57·7	-20·8			0			
	4	- 13	- 49	S <sup>b</sup> E	9·8	55·3	-20·7			0			
	8	- 14	- 51	SE <sup>b</sup> S	11·6	52·6	-18·6	0·8	85	0			
	Mn.	- 15	- 54	SE <sup>b</sup> S	8·6	50·4	-16·1	1·1	86	0			
Nov. 16.	4	78 16	138 56	SE <sup>b</sup> S	14·2	49·8	-15·4	1·2	84				m
	8	- 17	- 58	SE <sup>b</sup> S	9·7	49·9	-15·9	1·1	84	10			m
	Noon	- 18	139 0	SE <sup>b</sup> S	8·3	49·9	-17·8	0·9	86	10	Snow.sk.		m
	4	- 19	- 2	SE <sup>b</sup> S	6·8	50·5	-16·3	1·1	91	10	Str.		*

<sup>1</sup> After the observation moved the thermometer-screen from the after-deck to the fore-part of the poop in the main shrouds.

<sup>2</sup> Clouds horiz.

<sup>3</sup> Clearing up from SW.

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Nov. 16.	8	78°20'	139° 4'	SE <sup>b</sup> E	5.1	751.8	-16.1	1.1	92	10	Str.		*
	Mn.	- 20	- 6	S <sup>b</sup> W	5.2	53.3	-14.5	1.3	93	10	Snow.sk.		
Nov. 17.	4	78 21	139 9	SW	3.5	54.9	-16.4	1.1	88	8	Str.		
	8	- 22	- 11	S <sup>b</sup> W	3.2	57.5	-21.3	0.7	87	0			
	Noon	- 23	- 13	S	3.0	59.7	-22.9	0.6	88	0			
	4	- 24	- 15	S <sup>b</sup> W	2.5	61.8	-24.2	0.6	87	0			
	8	- 25	- 16	S <sup>b</sup> E	2.0	63.5	-26.7	0.4	86	0			
	Mn.	- 25	- 16	SE <sup>b</sup> S	2.2	64.5	-26.2	0.5	85	0			
Nov. 18.	4	78 25	139 16	SE <sup>b</sup> S	2.0	64.7	-28.4	0.4	85	0			
	8	- 25	- 16	SE <sup>b</sup> S	3.1	65.5	-29.4	0.3	84				
	Noon	- 25	- 16	SE <sup>b</sup> S	1.5	65.8	-30.0	0.3	83	0			
	4.15	- 25	- 16		0	65.8	-30.0	0.3	83	0			
	8	- 25	- 17		0	65.8	-28.3	0.4	84	0			
	Mn.	- 24	- 17	SW <sup>b</sup> W	2.1	65.5	-28.8	0.4	85	0			
Nov. 19.	4	78 24	139 17	N <sup>b</sup> W	1.9	64.8	-28.9	0.4	85	0			
	8	- 24	- 17	N <sup>b</sup> W	1.9	64.6	-29.0	0.3	85	0			
	Noon	- 24	- 17	N <sup>b</sup> W	1.9	64.0	-30.0	0.3	84	0			
	4	- 24	- 17	NNE	2.8	63.6	-30.5	0.3	84	0			
	8	- 24	- 17	N <sup>b</sup> W	3.3	62.4	-30.7	0.3	83	0			
	Mn.	- 24	- 17	N <sup>b</sup> W	3.4	60.4	-30.2	0.3	83	0			
Nov. 20.	4	78 24	139 17	N <sup>b</sup> W	5.3	58.5	-28.3	0.4	85	10	Str.		*
	8.15	- 24	- 17	N <sup>b</sup> W	5.1	56.2	-26.4	0.5	87	10	Str.		
	Noon	- 24	- 17	N <sup>b</sup> W	4.1	54.2	-26.2	0.5	87	10	Str.		
	4	- 24	- 17	N <sup>b</sup> E	4.3	53.7	-25.8	0.5	87	10	Str.		
	8	- 24	- 18	NW <sup>b</sup> N	4.8	53.4	-25.7	0.5	87	10	Str.		
	Mn.	- 24	- 18	N	4.3	53.1	-24.9	0.5	88	10	Str.		
Nov. 21.	4	78 24	139 18	W <sup>b</sup> N	6.8	55.1	-25.1	0.5	87	10	Str.		
	8	- 24	- 18	W	5.2	56.2	-29.3	0.3	85	0			
	Noon	- 24	- 18	SW	4.2	58.8	-30.3	0.3	84	0			
	4	- 24	- 18	WSW	5.0	61.2	-30.1	0.3	84	0			
	8	- 24	- 19	SW	4.4	64.1	-28.7	0.3	84	0			
	Mn.	- 25	- 20	S <sup>b</sup> W	6.3	64.9	-27.7	0.4	84	0			
Nov. 22.	4	78 25	139 21	S <sup>b</sup> E	4.5	66.1	-27.6	0.4	84	0			
	8	- 26	- 23	S <sup>b</sup> E	4.2	67.1	-28.3	0.4	86	0			
	Noon	- 26	- 24	S <sup>b</sup> E	4.8	67.0	-29.2	0.4	85	0			
	4	- 27	- 25	SSE	5.1	66.7	-29.0	0.4	85	0			
	8	- 27	- 27	SSE	5.2	66.5	-29.1	0.3	85	0			
	Mn.	- 28	- 28	SSE	3.7	64.5	-28.4	0.4	86	0			
Nov. 23.	4	78 28	139 29	SE <sup>b</sup> E	3.0	62.3	-28.7	0.4	85	10°			
	8	- 29	- 31	NE <sup>b</sup> E	1.8	59.9	-28.8	0.4	86	9	Cust.		
	Noon	- 30	- 32		0	58.5	-29.3	0.3	85	0			
	4	- 30	- 33	S <sup>b</sup> E	1.9	58.4	-30.0	0.3	85	0			
	8	- 31	- 33	SE <sup>b</sup> E	4.2	58.3	-29.1	0.3	85	0			
	Mn.	- 31	- 30	SE <sup>b</sup> E	5.5	58.0	-26.8	0.4	86	7°	Cust.		

<sup>1</sup> m horiz.<sup>2</sup> Placed the snow-gauge on the bridge.<sup>3</sup> m horiz. U.<sup>4</sup> Vertical column of light from the moon down to the horizon. Here traces of the upper part of a mock-moon. 9.15 a. m. 2 mock-moons, U and a vertical column; the upper part of U not visible.<sup>5</sup> 3 p. m. U quite faint, but the column rather distinct. 4 p. m. No ring, only a faint trace of the column.<sup>6</sup> Faint U.<sup>7</sup> U.

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Nov. 24.	4	78° 32'	139° 27'	SE <sup>b</sup> S	5·5	757·3	-25·1	0·5	87	7	Cust.		
	8	- 33	- 24	SSE	6·4	57·0	-27·5	0·4	86	10°	Cicu.		1
	12.30	- 33	- 21	SE	5·0	56·5	-26·1	0·5	87	0			
	4	- 34	- 19	SE <sup>b</sup> E	6·4	56·1	-27·2	0·4	87	0			2
	8	- 35	- 16	SE <sup>b</sup> E	4·8	55·8	-27·5	0·4	86	0			3
	Mn.	- 35	- 13	S <sup>b</sup> E	4·1	54·7	-27·7	0·4	86	0			
Nov. 25.	4	78 36	139 10	SE <sup>b</sup> S	3·3	53·8	-26·9	0·4	87	0			
	8	- 37	- 7	SE <sup>b</sup> E	4·6	53·7	-25·7	0·5	88	10	Cust.		4
	Noon	- 37	- 4	SE <sup>b</sup> E	4·7	53·7	-27·0	0·4	86	1	Cist.		
	4	- 38	- 1	SE <sup>b</sup> E	3·6	53·8	-26·5	0·5	87	0			5
	8	- 38	- 0	SE <sup>b</sup> E	3·0	54·8	-27·4	0·4	86	1	Cust.		6
	Mn.	- 38	138 59	SE <sup>b</sup> E	2·6	55·7	-28·3	0·4	86	0			7
Nov. 26	4	78 38	138 59	E <sup>b</sup> S	2·3	56·6	-28·7	0·4	85	0			8
	8	- 38	- 59	E <sup>b</sup> S	2·5	57·9	-29·0	0·3	85	1	Cust.		
	Noon	- 38	- 59	E <sup>b</sup> S	2·5	58·1	-25·0	0·5	88	10	Str.		*
	4	- 38	- 58	E <sup>b</sup> S	2·9	58·7	-22·2	0·7	91	10	Str.		
	8.15	- 38	- 58	E <sup>b</sup> S	1·4	59·4	-23·1	0·6	90	0			
	Mn.	- 38	- 58	E <sup>b</sup> S	1·5	59·7	-27·1	0·4	88	0			
Nov. 27.	4	78 38	138 57		0	61·0	-27·3	0·4	89	0			
	8	- 38	- 57		0	62·8	-29·4	0·3	88	0			
	Noon	- 38	- 57		0	64·1	-30·5	0·3	87	10°			m. <sup>9</sup>
	4	- 38	- 56		0	65·2	-30·7	0·3	87	10°			m. <sup>10</sup>
	8	- 38	- 56		0	66·2	-31·0	0·3	86	10°			m.
	Mn.	- 39	- 56	SE	2·0	66·2	-30·1	0·3	87	10	Cu.		
Nov. 28.	4	78 39	138 55	SE <sup>b</sup> E	2·5	66·4	-26·7	0·4	89	9	Cust.		
	8	- 39	- 55	SE <sup>b</sup> E	2·4	66·7	-24·8	0·6	92	10	Str.		
	Noon	- 39	- 55	SE <sup>b</sup> E	2·2	66·9	-27·0	0·5	91	8	Cu.		
	4	- 39	- 54	SE <sup>b</sup> E	2·5	67·5	-27·3	0·4	90	10°			m. <sup>11</sup>
	8	- 39	- 54	SE <sup>b</sup> E	2·6	68·0	-29·1	0·4	90	0			
	Mn.	- 39	- 52	S <sup>b</sup> E	3·4	68·7	-31·0	0·3	88	0			
Nov. 29.	4	78 39	138 51	S <sup>b</sup> E	2·6	68·8	-31·4	0·3	89	0			
	8.15	- 39	- 50	S <sup>b</sup> E	2·4	68·9	-29·5	0·4	89	0			
	Noon	- 40	- 49	S <sup>b</sup> E	2·2	68·6	-30·0	0·3	89	0			
	4.30	- 40	- 48	SE <sup>b</sup> S	2·4	68·5	-28·9	0·4	89	10	Cust.	NNE	<sup>12</sup>
	8.30	- 40	- 47	SE <sup>b</sup> S	1·9	68·5	-29·2	0·4	89	0			
	Mn.	- 40	- 46	SE <sup>b</sup> S	2·0	68·4	-29·3	0·4	89	0			
Nov. 30.	4	78 40	138 45	SE <sup>b</sup> S	2·2	68·9	-29·3	0·4	89	0			
	8.15	- 41	- 43	SE <sup>b</sup> S	3·2	70·0	-27·5	0·4	90	10	Str.		*
	Noon	- 41	- 42	S <sup>b</sup> E	2·5	70·2	-23·3		10	Str.			
	4.15	- 41	- 41	SE <sup>b</sup> S	1·7	70·8	-22·4	0·7	96	10	Str.		
	8	- 41	- 40	SE <sup>b</sup> S	2·5	70·8	-20·4	0·8	98	10	Str.		
	Mn.	- 41	- 39	SE <sup>b</sup> S	2·7	70·0	-21·7	0·8	97	2	Str.		

<sup>1</sup> Faint ☉.<sup>2</sup> 3 p. m. 2 mock-moons and traces of a double-bow in zenith. Prolongation of the horizontal axis was seen outside the mock-moons. ☉ very faint in the quadrants.<sup>3</sup> 5.30 p. m. A radiance was seen on the horiz. under the moon, quite like a hay-cock. The colours faint, nearest the ice strongest yellow, decreasing outwards; uniform transition from one colour to another.<sup>4</sup> Faint coloured ☉.<sup>5</sup> Faint ☉.<sup>6</sup> Lightening far off in SSW.<sup>7</sup> Faint ☉, coloured ☉.<sup>8</sup> Light clouds underneath the moon.<sup>9</sup> Light clouds underneath the moon.<sup>10</sup> ☉.<sup>11</sup> ☉ blue outside, red-yellow innermost; was seen the whole day<sup>12</sup> ☉.



1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Dec. 1.	4	78° 42'	138° 38'	SE <sup>b</sup> S	2.4	769.2	-20.8	0.8	98	4	Str.		
	8	- 42	- 37	SE <sup>b</sup> S	2.1	68.7	-20.1	0.9	99	10	Str.		
	Noon	- 42	- 36	S <sup>b</sup> E	2.4	68.4	-16.9	1.2	100	10	Str.		
	4	- 42	- 35	S	3.6	68.8	-19.9			10	Str.		
	8	- 43	- 33	S <sup>b</sup> W	3.0	69.3	-22.0			10	Str.		
	Mn.	- 43	- 32	S	2.0		-26.3	0.4	72				
Dec. 2.	4	78 43	138 31	S <sup>b</sup> E	2.2	68.5	-26.6	0.5	84	5			
	8	- 43	- 30	SE <sup>b</sup> S	2.9	68.1	-22.0	0.7	83	10	Str.		*
	12.30	- 43	- 29	SE <sup>b</sup> S	3.2	67.6	-22.0	0.7	83	10	Str.		
	4	- 44	- 28	SE <sup>b</sup> E	3.0	67.1	-23.3	0.6	82	10	Str.		
	8	- 44	- 27	SE <sup>b</sup> E	3.2	66.6	-26.3	0.7	81	10	Str.		
	Mn.	- 44	- 26	SE <sup>b</sup> E	2.2	65.6	-30.1	0.3	80	0			
Dec. 3.	4	78 44	138 24	SE <sup>b</sup> E	4.0	64.7	-28.9	0.3	80	0			
	8	- 45	- 21	SE <sup>b</sup> S	3.0	64.2	-29.4	0.3	80	0			
	Noon	- 45	- 19	SE <sup>b</sup> S	3.2	63.2	-29.9	0.3	80	0			
	4	- 46	- 17	SE <sup>b</sup> E	2.8	62.5	-31.8	0.3	79	0			
	8	- 46	- 15	SE <sup>b</sup> E	3.0	62.6	-32.6	0.2	80	0			
	Mn.	- 47	- 13	SE <sup>b</sup> E	3.5	61.8	-32.2	0.3	89	0			
Dec. 4.	4	78 47	138 11	SE <sup>b</sup> E	4.8	62.0	-27.1	0.4	82	0			
	8.30	- 48	- 8	SE <sup>b</sup> E	5.7	63.0	-30.2	0.3	80	0			
	Noon	- 48	- 6	SE <sup>b</sup> E	4.0	62.9	-30.8	0.3	80	0			
	4	- 48	- 4	SE <sup>b</sup> S	3.4	62.5	-31.1	0.3	80	0			
	8	- 49	- 2	SE <sup>b</sup> S	3.0	61.9	-32.8	0.2	80	0			
	Mn.	- 49	- 0	SE <sup>b</sup> S	4.2	60.1	-33.2	0.2	80	0			
Dec. 5.	4	78 50	137 58	SE <sup>b</sup> S	4.5	59.1	-33.3	0.2	78	0			
	8	- 50	- 55	SE <sup>b</sup> E	4.2	57.6	-34.9	0.2	78	0			
	Noon	- 51	- 53	SE <sup>b</sup> E	4.8	56.5	-34.7	0.2	79	10°	Str.		
	4	- 51	- 51	SE <sup>b</sup> E	3.1	56.3	-35.6	0.2	78	0			
	8	- 51	- 50	SE <sup>b</sup> E	3.1	56.1	-33.7	0.2	78	10°			m
	Mn.	- 52	- 49	ESE	2.4	55.6	-33.7			0			
Dec. 6.	4	78 52	137 48	SE <sup>b</sup> E	3.0	55.0	-33.0	0.2	80	0			
	8	- 52	- 47	SE <sup>b</sup> E	3.0	54.9	-34.5	0.2	80	0			
	Noon	- 52	- 46	SE <sup>b</sup> E	4.1	54.1	-34.2	0.2	79	0			
	4	- 53	- 46	SE <sup>b</sup> E	4.4	53.5	-32.6	0.2	80	10	Str.		
	8	- 53	- 45	SE <sup>b</sup> E	3.9	53.2	-28.9	0.3	81	4			* <sup>1</sup>
	Mn.	- 53	- 44	SE <sup>b</sup> E	3.0	53.1	-28.8	0.3	81	0			
Dec. 7.	4	78 54	137 43	SE <sup>b</sup> E	2.8	54.3	-29.0	0.3	81	0			
	8.15	- 54	- 43	SSE	3.2	55.7	-27.1	0.4	82	4			*m
	Noon	- 54	- 42	SE <sup>b</sup> E	3.3	57.4	-29.5	0.3	81	0			
	4	- 54	- 41	SE <sup>b</sup> E	2.6	59.4	-31.1	0.3	80	0			
	8	- 55	- 40	S <sup>b</sup> E	3.1	61.8	-31.0	0.3	81	0			
	Mn.	- 55	- 40	S <sup>b</sup> E	2.1	64.0	-33.2	0.2	80	0			
Dec. 8.	4	78 55	137 39	S <sup>b</sup> E	2.4	65.9	-33.3	0.2	81	0			
	8	- 56	- 38	S <sup>b</sup> W	3.5	67.3	-33.9	0.2	81	0			
	Noon	- 56	- 37	S <sup>b</sup> E	2.6	68.5	-34.8	0.2	80	0			
	4	- 56	- 36	SE <sup>b</sup> E	2.8	69.8	-34.4	0.2	80	0			
	8	- 56	- 36	SSE	3.5	70.6	-34.7	0.2	80	0			
	Mn.	- 57	- 35	SSE	3.1	70.7	-34.4	0.2	80	0			
Dec. 9.	4	78 57	137 34	S <sup>b</sup> E	4.2	70.3	-34.2	0.2	80	0			
	8.45	- 57	- 33	S <sup>b</sup> W	4.8	71.1	-32.8	0.2	81	0			
	Noon	- 58	- 33	S <sup>b</sup> W	4.8	70.7	-33.2	0.2	81	0			
	4	- 58	- 32	S <sup>b</sup> W	7.7	70.6	-30.2			0			*

<sup>1</sup> m horiz.

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Dec. 9.	8	78°58'	137°32'	S <sup>b</sup> W	7.0	769.8	-29.3			0			
	Mn.	- 59	- 32	S <sup>b</sup> W	5.0	69.1	-29.7	0.3	76	0			
Dec. 10.	4	78 59	137 33	S <sup>b</sup> W	7.9	67.9	-29.3	0.3	80	0			
	8	79 0	- 33	S <sup>b</sup> W	6.4	67.0	-29.1	0.3	82	0			
	Noon	- 0	- 34	S <sup>b</sup> W	6.8	66.1	-29.2	0.4	82	0			
	5.30	- 1	- 34	S <sup>b</sup> W	6.8	66.4	-24.1	0.5	82	0			
	8	- 1	- 35	S <sup>b</sup> W	8.7	67.2	-22.7	0.6	82	0			
	Mn.	- 2	- 35	S <sup>b</sup> W	7.0	68.7	-24.5	0.5	80	0			
Dec. 11.	4	79 3	137 36	S <sup>b</sup> W	6.0	70.0	-26.3	0.4	82	0			
	8	- 3	- 36	S <sup>b</sup> W	5.3	70.3	-23.4	0.5	81	10			
	Noon	- 3	- 37	S <sup>b</sup> W	3.8	69.9	-20.1	0.8	91	10			
	4	- 4	- 37	SE <sup>b</sup> S	4.7	69.4	-19.5	0.9	93	0			
	8	- 5	- 38	SE <sup>b</sup> E	2.1	68.6	-24.7	0.5	92	0			
	Mn.	- 5	- 38	SE <sup>b</sup> S	2.1	68.1	-24.8	0.5	92	0			
Dec. 12.	8.30	79 6	137 39		0	66.2	-23.5	0.4	90	0			
	Noon	- 7	- 39	N <sup>b</sup> W	2.7	65.9	-23.9	0.4	91	0			
	4	- 7	- 40	NNE	3.5	65.9	-23.7	0.4	90	0			
	8	- 7	- 40	NNE	5.7	66.2	-27.5	0.4	90	0			
	Mn.	- 7	- 40	NNE	5.4	66.6	-23.0	0.6	93		Str.		
Dec. 13.	4	79 7	137 40	NNE	5.1	67.0	-24.1	0.6	93	10	Str.		
	8	- 7	- 40	NNE	5.4	68.8	-29.9	0.3	91	0			
	Noon	- 7	- 39	NE <sup>b</sup> N	4.9	70.1	-32.7	0.3	89	0			
	4	- 7	- 39	NNE	5.2	71.8	-34.7	0.2	88	0			
	8	- 7	- 39	NNE	3.2	74.1	-35.2	0.2	88	0			
Dec. 14.	1.30	79 7	137 39	N <sup>b</sup> E	4.2	76.6	-34.9	0.2	88	0			
	4	- 7	- 39	N <sup>b</sup> E	1.8	78.0	-35.4	0.2	88	0			
	8	- 7	- 39	N <sup>b</sup> E	1.4	79.1	-35.7	0.2	88	0			
	12.15	- 7	- 39	N <sup>b</sup> E	1.2	80.1	-36.1	0.2	88	0			
	4	- 7	- 39	SW <sup>b</sup> S	1.7	80.4	-35.5	0.2	88	0			
	8	- 6	- 39	SW <sup>b</sup> S	1.8	81.0	-32.4	0.3	89	0			
	Mn.	- 6	- 38	SW <sup>b</sup> S	1.6	81.1	-29.1	0.4	89	10	Str.		
Dec. 15.	4	79 6	137 38	SW <sup>b</sup> S	2.2	80.8	-27.5	0.4	91	10			
	8	- 6	- 38	SW <sup>b</sup> S	1.6	81.3	-24.9	0.5	91	10	Str.		
	Noon	- 6	- 38	SW <sup>b</sup> S	3.4	80.7	-24.7	0.5	90	1	Str.		
	4	- 6	- 38	SW <sup>b</sup> S	2.5	80.5	-23.8	0.6	90	10	Str.		
	8	- 6	- 38	SW <sup>b</sup> S	3.4	80.2	-22.5	0.7	93	10	Str.		
	Mn.	- 6	- 38	W	2.5	79.3	-21.8	0.7	95	10	Str.		
Dec. 16.	4	79 6	137 38	W	2.3	79.1	-20.8	0.8	94	10	Str.		
	8.15	- 6	- 38	W <sup>b</sup> S	3.4	77.5	-20.7	0.8	94	10	Str.		
	Noon	- 6	- 37	W <sup>b</sup> N	1.7	77.3	-20.8	0.8	94	10	Str.		
	4	- 6	- 37		0	77.4	-20.1	0.9	99	10	Str.		
	8	- 6	- 37	E <sup>b</sup> N	2.2	77.9	-21.5	0.9	98	10	Str.		
	Mn.	- 6	- 37	SE <sup>b</sup> S	3.2	78.3	-21.6	0.9	97	10	Str.		
Dec. 17.	4	79 6	137 37	SE <sup>b</sup> S	4.2	78.8	-22.5	0.7	98	10	Str.		
	8	- 6	- 37	SE <sup>b</sup> S	4.5	79.6	-24.0	0.6	97	10 <sup>1</sup>	Str.		
	Noon	- 6	- 37	SE <sup>b</sup> S	5.0	79.6	-23.4	0.7	97	10 <sup>1</sup>	Str.		
	4	- 6	- 37	SE <sup>b</sup> S	3.8	78.4	-22.3	0.7	97	10	Cust.		
	8	- 6	- 37	SE <sup>b</sup> S	2.8	79.8	-20.9	0.9	97	10	Str.		
	Mn.	- 6	- 36	S <sup>b</sup> W	2.0	80.1	-19.6	0.9	98	10	Str.		
Dec. 18.	4	79 5	137 36		0	80.3	-21.9	0.8	97	0			

<sup>1</sup> The clouds luminous; white on the under-edge; the intensity variable.

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Dec. 18.	8	79° 5'	137° 36'		0	781.5	-24.7	0.6	96	0			
	Noon	- 5	- 36		0	81.6	-24.0	0.6	96	3			
	4	- 5	- 36	SE <sup>b</sup> E	2.0	82.1	-24.1	0.6	96	0	Cu.		
	10	- 5	- 35	SE <sup>b</sup> E	2.4	82.2	-25.3	0.5	95	0			
	Mn.	- 6	- 34	SE <sup>b</sup> E	2.1	82.1	-26.1	0.5	95	0			
Dec. 19.	4	79 6	137 34	SE <sup>b</sup> E	5.0	81.8	-25.2	0.8	98	0			
	8	- 6	- 33	SE <sup>b</sup> S	3.2	81.8	-26.0	0.5	95	0			
	Noon	- 6	- 32	SE <sup>b</sup> S	3.2	81.9	-25.9	0.5	96	0			
	4	- 6	- 31	SE <sup>b</sup> S	2.7	82.3	-27.0		96	0			
	8	- 6	- 31	SE <sup>b</sup> S	1.8	82.9	-28.0	0.4	95	0			1
	Mn.	- 7	- 30	SE <sup>b</sup> S	1.5	83.6	-28.6	0.4	95	0			
Dec. 20.	4	79 7	137 29	SE <sup>b</sup> S	1.5	82.9	-30.5	0.3	95	0			
	8	- 7	- 28	SE <sup>b</sup> E	1.7	83.3	-31.4	0.3	94	0			2
	Noon	- 7	- 28	E <sup>b</sup> S	1.4	83.6	-32.7	0.3	93	0			3
	4	- 7	- 27	E <sup>b</sup> S	1.6	84.1	-33.5	0.3	92	0			
	8	- 7	- 26	SE <sup>b</sup> E	1.3	84.7	-33.5	0.3	92	0			4
	Mn.	- 7	- 25		0	84.5	-31.2	0.3	93	0			
Dec. 21.	4	79 7	137 23	SE <sup>b</sup> E	1.8	84.7	-29.8	0.4	94	10°			
	8.30	- 7	- 22	SE <sup>b</sup> S	1.7	84.7	-30.8	0.3	93	10°			m 5
	Noon	- 7	- 21		0	84.2	-27.8	0.4	94	10°			m 6
	4	- 8	- 20		0	84.3	-29.7	0.4	96	10°			m
	8	- 8	- 19	NE <sup>b</sup> N	2.3	84.3	-27.5	0.5	95	10			m 7
	Mn.	- 8	- 18	NE <sup>b</sup> E	2.5	83.5	-27.7	0.4	95	10			m
Dec. 22.	4	79 8	137 17	NE <sup>b</sup> E	2.0	82.5	-28.5	0.4	94	5			m
	8	- 8	- 15	NE <sup>b</sup> N	3.9	82.1	-29.7	0.4	95	10			m 8
	Noon	- 8	- 14	NE <sup>b</sup> N	2.9	81.1	-30.8	0.3	94	0			9
	4	- 8	- 13	NE <sup>b</sup> N	3.4	80.5	-30.4	0.3	93	0			
	8	- 8	- 13	NE <sup>b</sup> N	1.7	79.7	-32.9	0.3	94	0			
	Mn.	- 8	- 12	NNE	1.7	77.5	-33.1	0.3	95	0			
Dec. 23.	4	79 8	137 12	SE <sup>b</sup> E	2.4	77.2	-33.3	0.3	93	0			
	8.15	- 8	- 12	SE <sup>b</sup> E	1.7	77.2	-33.0	0.3	94	5			m 10
	Noon	- 8	- 12	SE <sup>b</sup> S	1.9	76.6	-31.0	0.3	92	10			m
	4	- 8	- 11	SSE	2.1	77.0	-34.3	0.2	93	0			11
	8	- 7	- 11	SSE	1.9	77.2	-34.9	0.2	91	0			12
	Mn.	- 7	- 11		0	77.4	-34.0	0.2	92	0			
Dec. 24.	4	79 7	137 10	SSE	2.2	77.9	-35.3	0.2	91	0			
	8	- 7	- 10	SSE	2.2	78.6	-35.8	0.3	91	0			13
	Noon	- 7	- 10	SSE	2.8	79.1	-36.2	0.2	91	0			
	4	- 7	- 10		0	80.1	-36.5	0.2	91	0			

<sup>1</sup> Deep-coloured W.<sup>2</sup> 11 a. m. coloured W.<sup>3</sup> Coloured W.<sup>4</sup> W.<sup>5</sup> White W.<sup>6</sup> W.<sup>7</sup> W.<sup>8</sup> W treble.<sup>9</sup> W in all the colours of the rainbow.<sup>10</sup> Coloured W, and bow in the opposite bearing.<sup>11</sup> W.<sup>12</sup> Coloured W.<sup>13</sup> 9 a. m. W.

1893. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Dec. 24.	8	79° 7'	137° 10'		0	781.1	-37.0	0.2	90	0			
	Mn.	- 6	- 11		0	82.7	-37.3	0.2	91	0			
Dec. 25	4	79 6	137 12		0	81.4	-37.6	0.2	91	0			
	8	- 6	- 13		0	82.1	-37.7	0.2	91	0			
	Noon	- 5	- 14	SW <sup>b</sup> S	2.6	83.3	-37.8	0.2	90	0			
	4	- 5	- 15	SW <sup>b</sup> S	1.6	83.6	-37.8	0.2	90	0			
	8	- 5	- 15	S <sup>b</sup> W	2.6	83.8	-37.3	0.2	90	0			
	Mn.	- 4	- 16	S <sup>b</sup> W	2.2	83.9	-35.9	0.2	90	0			
Dec. 26.	4	79 4	137 17	S <sup>b</sup> W	2.3	83.4	-37.0	0.2	90	0			
	8	- 4	- 18	S <sup>b</sup> W	1.5	83.2	-37.5	0.2	90	0			
	Noon	- 3	- 19	S <sup>b</sup> W	1.9	83.4	-37.0	0.2	90	0			
	4	- 3	- 19	SW	2.3	83.0	-37.4	0.2	90	0			
	8	- 3	- 20	SW <sup>b</sup> W	2.3	83.4	-38.3	0.2	90	0			
	Mn.	- 2	- 21	SW <sup>b</sup> W	1.5	83.8	-37.1	0.2	90	0			
Dec. 27.	4	79 2	137 22	SW <sup>b</sup> S	2.6	82.9	-36.4	0.2	91	0			
	8	- 2	- 23	SW <sup>b</sup> S	4.0	82.0	-34.0	0.2	92	0			
	12.30	- 1	- 24	W <sup>b</sup> S	5.3	80.9	-30.7	0.3	93	10°			m
	4	- 1	- 24	W <sup>b</sup> N	5.6	79.2	-23.9	0.4	94	10°			m
	6	- 1	- 24	WNW	8.6	78.0	-25.1	0.5	95	10°			m
	8	- 1	- 24	WNW	9.4	77.4	-23.2	0.7	97	10°			m
	10	- 1	- 23	WNW	7.2	76.9	-22.7	0.7	97	10°	Str.		
	Mn.	- 0	- 23	NW <sup>b</sup> N	8.0	76.2	-21.0	0.8	96	10°	Str.		
Dec. 28.	2	79 0	137 22	NW	5.4	76.3	-20.8	0.8	97	5	Str.		
	4	- 0	- 22	NW <sup>b</sup> N	7.8	76.0	-18.8	0.9	97	10°			m
	6	- 0	- 22	NW <sup>b</sup> N	7.2	75.7	-18.5	1.0	97	10°			m
	8	- 0	- 21	N <sup>b</sup> E	6.4	75.8	-22.0	0.8	97	0			
	10	78 59	- 21	N <sup>b</sup> W	7.2	75.8	-21.9	0.8	97	9	Cu.		
	Noon	- 59	- 20	N <sup>b</sup> W	6.7	75.8	-24.3	0.6	97	0			
	2	- 59	- 20	N <sup>b</sup> E	5.7	75.5	-24.8	0.6	96	10°			m <sup>1</sup>
	5	- 59	- 19	N <sup>b</sup> E	4.1	75.2	-21.0	0.8	96	10	Str.		
	8	- 58	- 18	NE <sup>b</sup> N	5.3	76.0	-19.0	0.9	97	10	Str.		
	10	- 58	- 18	NE	4.5	76.0	-18.6	1.0	97	9	Cust.		
Dec. 29	Mn.	- 58	- 17	NE <sup>b</sup> E	4.1	76.0	-18.9	0.9	97	9	Cu.		
	4	78 58	137 16	NE <sup>b</sup> E	4.0	76.1	-22.7	0.7	100	8	Cust.		
	6	- 58	- 16	NE <sup>b</sup> N	4.0	76.1	-25.0	0.6	96	0			
	8	- 57	- 16	NE <sup>b</sup> E	4.8	76.1	-26.5	0.5	95	0			
	Noon	- 57	- 15	NE <sup>b</sup> E	3.8	75.9	-27.4	0.5	94	0			
	4	- 57	- 14	NE <sup>b</sup> N	3.2	75.4	-23.6	0.4	94	0			
	8	- 57	- 11	N <sup>b</sup> N	4.0	75.1	-30.5		94	0			
	Mn.	- 57	- 9	NE <sup>b</sup> E	2.6	73.7	-30.2	0.3	94	0			
Dec. 30.	4	78 57	137 7	NE <sup>b</sup> E	4.2	72.7	-23.1	0.4	94	0			
	8	- 57	- 4	NE <sup>b</sup> E	6.3	71.8	-27.0	0.5	93	0			
	Noon	- 57	- 2	NE <sup>b</sup> E	4.5	70.7	-28.5	0.4	97	0			
	4	- 57	- 0	E <sup>b</sup> N	5.0	70.2	-26.9	0.5	97	10°			m
	8	- 58	136 57	E <sup>b</sup> N	5.3	70.1	-28.4	0.4	93	10°			m
	Mn.	- 58	- 55	E <sup>b</sup> N	4.2	69.2	-27.6	0.4	93	10			m
Dec. 31.	4	78 58	136 52	E <sup>b</sup> N	4.5	67.8	-27.6	0.4	93	10			m
	8.15	- 58	- 50	SE <sup>b</sup> E	4.8	66.7	-23.3	0.4	93	10	Str.		*
	Noon	- 58	- 48	SE <sup>b</sup> E	3.3	66.1	-27.1	0.5	93	10	Str.		*
	4	- 58	- 46	S <sup>b</sup> E	2.6	66.3	-32.0	0.3	92	0			*
	8	- 58	- 47	S <sup>b</sup> E	2.3	66.5	-34.3	0.2	91	0			
	Mn.	- 58	- 48		0	66.8	-36.0	0.2	90	0			

<sup>1</sup> Cust. in SSE.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 1.	4	78° 58'	136° 49'	SW <sup>b</sup> S	1.6	767.2	-36.7	0.2	90	0			
	8	- 57	- 50	SW <sup>b</sup> W	1.2	67.0	-37.3	0.2	90	0			
	Noon	- 57	- 51	SW <sup>b</sup> W	2.1	66.2	-37.8	0.2	90	0			
	4	- 57	- 52	SW <sup>b</sup> W	2.2	65.7	-38.2	0.2	90	0			
	8	- 57	- 53	WSW	2.4	65.2	-38.3	0.2	90	0			
	Mn.	- 57	- 54	WSW	2.2	64.5	-37.8	0.2	90	0			
Jan. 2.	4	78 57	136 55	SW <sup>b</sup> W	1.5	64.0	-38.2	0.2	90	0			
	8.15	- 56	- 56	WSW	3.0	63.7	-38.5			0			
	Noon	- 56	- 57	WSW	3.3	63.0	-38.3	0.2	90	0			
	4	- 56	- 58	WSW	3.2	62.7	-38.7	0.1	90	0			
	8.15	- 56	- 59	W <sup>b</sup> S	3.5	62.4	-39.1	0.1	90	0			
	Mn.	- 56	137 0	W <sup>b</sup> S	4.2	61.6	-39.0	0.1	89	0			
Jan. 3.	4	78 56	137 1	WSW	3.7	61.1	-37.8	0.2	91	0			
	8	- 56	- 2	SW <sup>b</sup> W	4.5	60.6	-37.7	0.2	89	0			
	Noon	- 56	- 2	SW <sup>b</sup> W	3.2	60.7	-38.0	0.2	89	0			
	4	- 56	- 3	SW <sup>b</sup> W	2.4	60.6	-39.3	0.1	89	0			
	8	- 56	- 4	SW <sup>b</sup> S	1.4	60.8	-39.5	0.1	89	0			
	Mn.	- 56	- 5		0.0	60.5	-39.0	0.1	89	0			
Jan. 4.	4	78 56	137 6	SE <sup>b</sup> E	1.7	60.0	-37.3	0.2	90	0			
	8	- 57	- 7	NE <sup>b</sup> N	1.8	59.7	-38.5	0.2	89	0			
	Noon	- 57	- 8	E <sup>b</sup> N	2.4	58.8	-38.8	0.1	90	0			
	4	- 57	- 9	NNE	3.5	58.4	-36.2	0.2	90	0			
	8	- 57	- 10	N <sup>b</sup> E	2.7	58.4	-35.6	0.2	90	10°			m
	Mn.	- 57	- 10	N	2.3	57.7	-34.6	0.2	90	0			
Jan. 5.	4	78 57	137 11	N	3.0	57.9	-36.2	0.2	90	0			
	8	- 57	- 12	NW <sup>b</sup> N	2.3	58.5	-38.3	0.2	92	10°			m
	Noon	- 57	- 13	NW <sup>b</sup> W	2.8	58.8	-37.9	0.2	90	0			
	4	- 57	- 14	W	1.5	59.6	-38.4	0.2	90	0			
	8	- 57	- 15	WSW	2.9	60.7	-38.1	0.2	89	0			
	Mn.	- 58	- 16	SW <sup>b</sup> W	3.4	60.9	-37.6	0.2	90	0			
Jan. 6.	4	78 58	137 17	SSW		60.7	-37.4	0.2	90	0			
	8.15	- 59	- 19	SW <sup>b</sup> S	2.9	61.8	-37.9	0.2	89	0			
	Noon	- 59	- 20	S <sup>b</sup> W	3.0	58.2	-38.6	0.1	89	0			
	4	- 59	- 21	S <sup>b</sup> W	4.2	61.4	-38.3	0.2	89	0			
	8	79 0	- 22	S <sup>b</sup> W	5.0	61.5	-38.3	0.2	89	0			
	Mn.	- 0	- 23	S <sup>b</sup> W	5.2	60.5	-37.9	0.2	89	0			
Jan. 7.	4	79 1	137 24	S <sup>b</sup> W	5.2	59.3	-37.4	0.2	89	0			
	8	- 1	- 25	S <sup>b</sup> W	6.0	58.3	-36.0	0.2	90	0			
	Noon	- 2	- 26	S <sup>b</sup> W	4.9	57.6	-36.0	0.2	90	0			
	4	- 2	- 27	S <sup>b</sup> W	5.1	57.1	-33.9	0.2	91	10°			m
	8	- 2	- 29	S <sup>b</sup> W	6.4	57.6	-32.0	0.3	90	0			
	Mn.	- 3	- 30	S <sup>b</sup> W	6.0	57.8	-33.5	0.3	91	0			
Jan. 8.	4	79 3	137 31	S <sup>b</sup> W	4.0	57.2	-35.5	0.2	91	0			
	8	- 4	- 32	S <sup>b</sup> W	3.7	57.6	-36.0	0.2	90	0			
	Noon	- 4	- 33	S <sup>b</sup> W	4.0	57.7	-37.2	0.2	90	0			
	4.30	- 5	- 34	S <sup>b</sup> E	4.4	57.4	-38.5	0.2	89	0			
	8	- 5	- 32	S <sup>b</sup> E	5.1	57.8	-39.2	0.1	89	0			
	Mn.	- 5	- 30	SE	4.3	57.2	-39.5	0.1	89	0			
Jan. 9.	4	79 5	137 28	SE <sup>b</sup> E	4.7	57.7	-39.5	0.1	89	0			
	8.30	- 5	- 26	E <sup>b</sup> S	2.2	57.6	-39.4	0.1	89	0			
	Noon	- 5	- 24	E <sup>b</sup> N	3.0	57.2	-38.7	0.1	89	0			
	4.30	- 6	- 22	SE <sup>b</sup> E	3.2	57.2	-36.3	0.2	90	10°			m
	8	- 6	- 20	E <sup>b</sup> N	2.4	57.9	-33.7	0.2	90	10°			m
	Mn.	- 6	- 18	SE <sup>b</sup> E	2.2	58.4	-34.9	0.1	90	10°			m

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 10.	4	79° 6'	137° 16'	S <sup>b</sup> W	2.2	759.0	-34.3	0.2	92	0			
	8.15	- 6	- 14	SW <sup>b</sup> S	3.4	61.0	-35.9	0.2	90	0			
	Noon	- 6	- 12	S <sup>b</sup> W	2.8	62.9	-38.0	0.2	89	0			
	4	- 6	- 10	S <sup>b</sup> W	2.8	63.9	-39.1	0.1	89	0			
	8	- 7	- 10	S <sup>b</sup> W	4.0	64.6	-39.6	0.1	89	0			
	Mn.	- 8	- 11	S <sup>b</sup> W	4.8	64.3	-39.9	0.1	88	0			
Jan. 11.	4	79 8	137 11	SE <sup>b</sup> E	2.4	63.7	-39.5	0.1	90	0			
	8	- 9	- 12	SE <sup>b</sup> S	3.4	62.8	-40.4	0.1	89	0			
	Noon	- 9	- 12	SE <sup>b</sup> S	3.5	61.6	-40.1	0.1	89	0			
	4	- 10	- 13	S <sup>b</sup> W	4.4	59.8	-39.9	0.1	89	0			
	8	- 10	- 13	S <sup>b</sup> W	2.4	58.3	-41.4	0.1	89	0			
	Mn.	- 11	- 13	S	3.3	56.2	-41.6	0.1	89	0			
Jan. 12.	4	79 11	137 14	S <sup>b</sup> W	3.0	54.1	-42.0	0.1	90	0			
	8.15	- 12	- 14	S <sup>b</sup> W	5.6	52.6	-40.9	0.1	89	0			
	Noon	- 12	- 15	S <sup>b</sup> W	6.2	51.1	-37.9	0.2	89	10	Str.		
	4	- 13	- 15	S <sup>b</sup> E	6.5	49.7	-33.1	0.3	91	10	Str.		
	8	- 14	- 16	S <sup>b</sup> E	6.8	49.0	-30.5	0.3	93	10	Str.		
	Mn.	- 14	- 16	S <sup>b</sup> E	6.2	49.3	-29.9	0.3	94	10	Str.		* * *
Jan. 13.	4	79 15	137 17	S <sup>b</sup> E	6.4	50.1	-30.0	0.3	94	10	Str.		
	8.15	- 15	- 17	S <sup>b</sup> W	6.3	53.3	-32.9	0.3	93	0			
	Noon	- 16	- 17	S <sup>b</sup> W	3.4	54.8	-33.8	0.3	92	0			
	4	- 16	- 18	S <sup>b</sup> W	2.6	57.6	-36.3	0.2	92	0			
	8	- 16	- 19	S <sup>b</sup> W	2.8	59.5	-37.1	0.2	92	0			
	Mn.	- 16	- 19		0	60.9	-37.4	0.2	92	0			
Jan. 14.	4	79 16	137 20	S <sup>b</sup> W	1.8	63.1	-38.1	0.2	91	0			
	8	- 16	- 20	S <sup>b</sup> W	1.6	64.5	-39.2	0.1	91	0			
	Noon	- 16	- 21	S <sup>b</sup> W	2.4	66.2	-38.4	0.2	90	0			
	4	- 16	- 21	SW <sup>b</sup> S	1.4	66.8	-40.0	0.1	90	0			
	8	- 16	- 22	SW <sup>b</sup> S	2.0	67.9	-40.3	0.1	90	0			
	Mn.	- 16	- 22		0	68.5	-39.6	0.1	90	0			
Jan. 15.	4	79 16	137 23		0	68.6	-40.9	0.1	90	0			
	8	- 16	- 24	S <sup>b</sup> E	1.8	68.8	-39.4	0.1	90	0			
	Noon	- 16	- 24	S <sup>b</sup> E	2.0	68.9	-39.2	0.1	90	0			
	4	- 15	- 25	S <sup>b</sup> E	1.4	68.7	-40.1	0.1	90	0			
	8	- 15	- 25	S <sup>b</sup> W	3.2	68.9	-39.3	0.1	90	0			
	Mn.	- 15	- 26	S <sup>b</sup> W	4.0	69.2	-38.3	0.2	90	0			
Jan. 16.	4	79 15	137 26	SW <sup>b</sup> S	2.5	70.7	-39.1	0.1	90	0			
	8	- 15	- 27	S <sup>b</sup> W	3.0	72.0	-39.0	0.1	90	0			
	Noon	- 15	- 27	S <sup>b</sup> W	2.1	73.0	-39.8	0.1	90	0			
	4	- 15	- 28	S <sup>b</sup> E	2.8	73.6	-38.7	0.1	90	0			
	8	- 16	- 26	SSE	2.2	74.7	-38.1	0.2	90	0			
	Mn.	- 16	- 24	S <sup>b</sup> E	3.0	74.3	-38.5	0.2	90	0			
Jan. 17.	4	79 17	137 22	S <sup>b</sup> W	2.8	74.5	-38.0	0.2	91	0			
	8	- 17	- 19	S <sup>b</sup> E	3.3	75.2	-38.4	0.2	90	0			
	Noon	- 18	- 17	SE <sup>b</sup> S	2.4	75.5	-37.4	0.2	90	10°			
	4	- 18	- 15	SE	4.0	74.2	-34.9	0.2	91	10°			m
	8	- 19	- 13	SE <sup>b</sup> S	4.8	73.8	-33.6	0.2	92	0			m
	Mn.	- 19	- 11	SE <sup>b</sup> S	5.0	73.2	-30.0	0.3	94	0			
Jan. 18.	4	79 20	137 9	SE <sup>b</sup> S	5.8	73.6	-26.3	0.5	94	10°			m
	8	- 21	- 5	SSE	7.8	74.6	-26.1	0.5	93	10°			
	Noon	- 21	- 7	S <sup>b</sup> E	6.8	76.1	-25.6	0.5	93	10	Cust. Cust.		1

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 18.	4	79° 22'	137° 3'	SE <sup>b</sup> S	6.4	777.4	-27.2	0.5	92	10°	Cust.		1
	8	- 22	- 1	SE	6.4	79.1	-27.8	0.4	91	10°	Cust.		
	Mn.	- 23	136 59	SE <sup>b</sup> E	5.2	79.3	-30.1	0.3	91	0			
Jan. 19.	4	79 23	136 57	SE <sup>b</sup> E	4.2	78.1	-31.6	0.3	90				2 3
	8	- 24	- 55	SE <sup>b</sup> E	5.9	75.9	-32.0	0.3	90	0			
	Noon	- 25	- 53	ESE	10.0	72.6	-31.3	0.3	90	0			
	4.15	- 25	- 50	SE <sup>b</sup> E	8.6	70.0	-29.5	0.4	89	10			
	8	- 26	- 47	SE	6.8	69.4	-30.6	0.3	90	0	8:30 Cu.		
	Mn.	- 28	- 44	SSE	5.4	69.3	-29.8	0.4	92	10	Str.		
Jan. 20.	4	79 29	136 40	E	4.0	67.2	-28.7	0.4	93	10	Str.		* *
	8	- 30	- 37	E <sup>b</sup> S	5.2	64.9	-27.7	0.4	91	10°	Str.		
	Noon	- 32	- 33	ESE	5.6	62.3	-28.3	0.4	91	10°	Str.		
	4	- 33	- 30	SE <sup>b</sup> S	6.9	60.5	-27.9	0.4	91	10	Cu.		
	8	- 34	- 27	SE <sup>b</sup> S	5.2	60.1	-27.1	0.5	92	7	Cu.		
	Mn.	- 35	- 23	SE <sup>b</sup> S	5.4	60.3	-26.0	0.5	91	5	Cu.		
Jan. 21.	4	79 36	136 20	SE <sup>b</sup> S	5.8	60.0	-29.1	0.4	92	5	Cu.		4  m <sup>5</sup> * * * <sup>6</sup> * <sup>7</sup>
	8.15	- 36	- 16	SSE	4.1	61.7	-30.3	0.3	93	3	Cu.		
	Noon	- 37	- 13	S <sup>b</sup> E	3.6	63.0	-30.7	0.3	92	10	Cu.		
	4	- 37	- 9	S <sup>b</sup> E	2.2	65.9	-31.3	0.3	92	0			
	8	- 38	- 6	S <sup>b</sup> E	1.6	66.6	-33.0	0.3	91	0			
	Mn.	- 38	- 3		0	66.9	-35.4	0.2	91	0			
Jan. 22.	4	79 38	135 59	NE <sup>b</sup> N	1.6	67.4	-34.1	0.2	91	0			SE SE
	8	- 39	- 56	NNE	3.6	67.4	-33.7	0.2	91	0			
	Noon	- 39	- 52	NE <sup>b</sup> N	6.1	65.4	-30.5	0.3	92	10°	Str.		
	4	- 40	- 49	E		64.3	-27.5	0.4	91	10	Cu.		
	8	- 40	- 46	E	4.1	64.3	-26.7	0.5	93	5	Cu.		
	Mn.	- 41	- 43	E <sup>b</sup> S	3.2	63.6	-27.6	0.4	93	7	Cu.		
Jan. 23.	4	79 41	135 41	SE <sup>b</sup> E	3.0	63.8	-27.1	0.5	93	10	Str.		8
	8.30	- 41	- 38	SE <sup>b</sup> E	2.1	64.2	-32.7	0.2	93	0			
	Noon	- 42	- 35	E <sup>b</sup> S	3.4	64.1	-33.2	0.3	93	0			
	4	- 42	- 33	SE <sup>b</sup> E	1.9	64.5	-34.9	0.2	91	0			
	8	- 42	- 31	SE <sup>b</sup> S	1.8	65.4	-34.1	0.2	91	0			
	Mn.	- 42	- 30	S	2.1	65.7	-29.9	0.3	92	10	Cust.		
Jan.	4	79 43	135 29	SSW	2.8	66.7	-27.6	0.4	93	10	Cust.		
	8	- 43	- 28	SSW	4.0	68.4	-30.1	0.3	93	10	Cu.		
	Noon	- 43	- 27	S <sup>b</sup> W	3.6	69.1	-34.1	0.2	91	0			
	4	- 43	- 26	S	3.0	69.6	-35.2	0.2	91	0			
	8	- 43	- 25	S <sup>b</sup> W	2.8	70.1	-36.7	0.2	92	0			
	Mn.	- 43	- 24	S <sup>b</sup> W	4.0	69.4	-37.1	0.2	90	0			
Jan. 25.	4	79 43	135 22	SE <sup>b</sup> S	1.8	69.1	-36.7	0.2	90	0			
	8	- 43	- 21	S <sup>b</sup> W	2.6	68.8	-36.7	0.2	90	0			
	Noon	- 43	- 20	SSW	3.4	68.5	-37.8	0.2	90	0			
	4	- 43	- 19	SSW	3.3	68.3	-37.1	0.2	90	0			
	8	- 44	- 18	S <sup>b</sup> W	4.2	68.7	-37.9	0.2	90	0			
	Mn.	- 44	- 17	S <sup>b</sup> E	3.2	68.2	-38.0	0.2	90	0			

<sup>1</sup> U<sup>2</sup> A thick bank of light cloud on the horiz. from SSE—WSW, sharply defined above against the clear sky.<sup>3</sup> U.<sup>4</sup> 1 p. m. Cieu. i S.<sup>5</sup> Foggy U.<sup>6</sup> 10 p. m. Str. 8 p. m. During the observation, the veil of clouds that covered the eastern half of the sky from NE to SW drew like a segment over the western sky.<sup>7</sup> U.<sup>8</sup> 8:30 p. m. Cust. in S.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 26.	4	79°44'	135°16'	S <sup>b</sup> E	3.6	768.5	-37.7	0.2	90	0			
	8	- 44	- 14	S	3.4	67.3	-37.2	0.2	90	0			
	Noon	- 44	- 13	SE <sup>b</sup> S	3.2	66.3	-38.0	0.2	90	0			
	4	- 44	- 12	SE <sup>b</sup> E	2.9	65.5	-38.1	0.2	89	0			
	8	- 44	- 10	SE <sup>b</sup> E	3.0	64.3	-39.1	0.1	89	0			
	Mn.	- 44	- 8	SE <sup>b</sup> S	3.2	62.7	-38.8	0.1	90	0			
Jan. 27.	4	79 44	135 5	SE <sup>b</sup> E	2.0	61.0	-41.5	0.1	90	0			
	8	- 44	- 3	NE <sup>b</sup> E	2.0	59.5	-41.1	0.1	89	0			
	Noon	- 44	- 0	NE <sup>b</sup> N	2.0	58.0	-41.5	0.1	89	0			
	4	- 44	134 58		0	56.8	-41.4	0.1	89	0			
	8	- 45	- 56		0	55.0	-41.5	0.1	89	0			
	Mn.	- 45	- 53		0	53.2	-41.1	0.1	89	0			
Jan. 28.	4	79 45	134 51	S <sup>b</sup> E	1.9	52.8	-41.1	0.1	89	0			
	8	- 45	- 48	ESE	2.0	50.8	-40.1	0.1	89	0			
	Noon	- 45	- 46	SE <sup>b</sup> E	2.3	50.0	-37.6	0.2	90	0			
	4.15	- 45	- 44	ESE	1.7	50.1	-39.1	0.1	90	0			
	8	- 45	- 44	E <sup>b</sup> N	1.8	50.3	-39.0	0.1	90	0			
	Mn.	- 45	- 44	E <sup>b</sup> N	1.9	51.0	-39.1	0.1	89	0			
Jan. 29.	4	79 45	134 44	E <sup>b</sup> N	2.2	51.0	-38.3	0.2	89	10°			m
	8	- 45	- 44	NE <sup>b</sup> E	2.1	51.5	-37.0	0.2	90	0			
	Noon	- 45	- 44	NE <sup>b</sup> E	1.9	52.4	-38.6	0.2	90	0			
	4	- 45	- 44	E <sup>b</sup> S	1.9	52.1	-39.5	0.1	90	0			
	8	- 45	- 44	SE <sup>b</sup> E	1.9	52.2	-40.5	0.1	89	0			
	Mn.	- 45	- 44	SE <sup>b</sup> S	2.0	51.4	-39.1	0.1	90	0			
Jan. 30.	4	79 45	134 44	E <sup>b</sup> S	2.8	51.3	-37.1	0.2	90	0			
	8	- 45	- 44	E <sup>b</sup> S	3.2	50.7	-36.7	0.2	90	10	Cust.	SE	m
	Noon	- 45	- 44	E <sup>b</sup> S	3.1	50.5	-36.2	0.2	91	0	Str.	S	m <sup>1</sup>
	4	- 45	- 44	SE	4.0	50.0	-35.3	0.2	91	10°			m*
	8	- 46	- 42	SE <sup>b</sup> S	5.6	48.9	-30.1	0.3	93	10			m*
	Mn.	- 47	- 40	SE <sup>b</sup> S	6.4	47.6	-27.9	0.4	93	10	Str.		m*
Jan. 31.	4	79 48	134 38	SE <sup>b</sup> S	6.0	47.0	-28.1	0.4	94	10	Str.		
	8.15	- 49	- 36	SE	7.2	46.4	-27.5	0.4	94	10	Cust.		
	Noon	- 50	- 35	SE <sup>b</sup> E	7.4	46.1	-26.7	0.5	94	10	Cust.		*°
	4	- 50	- 33	SE <sup>b</sup> E	7.2	46.4	-27.4	0.3	94	10	Cu.		m*°
	8	- 51	- 31	SE <sup>b</sup> E	7.5	46.8	-26.4	0.5	94	10°			m*°
	Mn.	- 52	- 29	SE <sup>b</sup> E	6.0	46.5	-25.3	0.5	93	10	Str.		*°
Febr. 1.	4	79 53	134 27	SE <sup>b</sup> E	5.0	46.4	-24.8	0.6	97	10	Str.		*°
	8	- 54	- 25	SSE	5.8	46.5	-23.6	0.7	97	9	Cust.		*°
	Noon	- 55	- 23	SE	5.1	46.4	-20.9	0.8	99	10	Str.		*
	4	- 55	- 22	S <sup>b</sup> E	5.0	47.0	-19.7	0.9	99	10	Str.		*
	8	- 56	- 20	S <sup>b</sup> E	4.1	47.2	-20.5	0.9	99	10	Cust.		*
	Mn.	- 57	- 18	SE <sup>b</sup> S	5.0	47.2	-21.9	0.8	98	10	Cust.		*
Febr. 2.	4	79 58	134 16	SE <sup>b</sup> S	3.4	47.3	-23.1	0.7	97	5	Cu.		
	8	- 59	- 14	E <sup>b</sup> S	3.3	47.4	-23.7	0.6	97	10°			m*
	Noon	- 59	- 13	E <sup>b</sup> S	1.8	49.0	-26.9	0.5	96	10°			m <sup>2</sup>
	4	- 59	- 15	E <sup>b</sup> N	1.6	50.4	-27.7	0.4	96	7	Cu.		m
	8	- 59	- 16	SW <sup>b</sup> W	1.8	52.6	-27.2	0.5	95	10°			
	Mn.	- 59	- 17	WSW	3.2	53.2	-34.8	0.2	93				

<sup>1</sup> Str. horiz. in S.<sup>2</sup> 6 p. m. Str.



1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Febr. 3.	4	79° 59'	134° 19'	SW <sup>b</sup> W	2.3	755.4	-36.7	0.2	91	0			
	8.15	- 59	- 20	SW <sup>b</sup> W	2.9	56.6	-38.8	0.1	91	0			
	Noon	- 59	- 21	WSW	2.8	57.3	-40.1	0.1	91	0			
	4	- 58	- 23	WSW	3.5	57.6	-41.1	0.1	90	0			
	8	- 58	- 24	SW <sup>b</sup> W	2.7	57.5	-42.1	0.1	90	0			
	Midn.	- 58	- 25	SW	3.8	56.8	-42.5	0.1	90	0			
Febr. 4.	4	79 58	134 26	SW <sup>b</sup> W	4.2	56.6	-38.9	0.1	90	0			m
	8	- 58	- 28	W <sup>b</sup> S	4.5	55.8	-40.7	0.1	90	10°	Cu.		m
	Noon	- 58	- 29	SW	4.4	54.8	-39.3	0.1	90	0			
	4	- 58	- 30	SW	5.2	54.2	-41.1	0.1	90	0			
	8	- 58	- 32	SW <sup>b</sup> W	4.2	53.8	-40.5	0.1	90	0			
	Mn.	- 58	- 33	SW <sup>b</sup> W	3.2	53.7	-38.2	0.2	91	0			
Febr. 5.	4	79 58	134 34	SW <sup>b</sup> W	2.6	53.9	-40.7	0.1	90	0			
	8	- 57	- 36	SW <sup>b</sup> W	1.8	55.5	-44.0	0.1	90	0			
	Noon	- 57	- 37	WSW	1.9	56.2	-46.9	0.1	89	0			
	4	- 57	- 38	SW <sup>b</sup> W	1.6	57.7	-47.6	0.1	90	0			
	8	- 57	- 39		0	57.3	-48.7	0.1	88	0			
	Mn.	- 57	- 40		0	57.1	-48.3	0.1	89	0			
Febr. 6.	4	79 57	134 41		0	57.4	-48.4	0.1	88	0			
	8	- 57	- 41		0	57.9	-47.7	0.1	88	0			
	Noon	- 57	- 42		0	59.0	-47.6	0.1	88	0			
	4	- 57	- 43	N <sup>b</sup> E	1.8	60.3	-48.0	0.1	88	0			
	8	- 56	- 44		0	62.5	-47.4	0.1	88	0			
	Mn.	- 56	- 45	NE <sup>b</sup> N	1.9	64.1	-48.2	0.1	88	0			
Febr. 7.	4	79 56	134 46	N <sup>b</sup> W	3.1	65.2	-48.9	0.1	88	0			
	8	- 56	- 46	NE <sup>b</sup> N	2.9	67.8	-49.6	0.1	88	0			
	Noon	- 56	- 47	N	1.8	68.4	-49.4	0.1	88	0			
	4	- 56	- 48	NW <sup>b</sup> N	1.6	68.6	-49.6	0.0	88	0			
	8	- 56	- 49	WSW	2.0	69.4	-48.7	0.1	88	0			
	Mn.	- 56	- 50	SW <sup>b</sup> S	4.5	67.4	-42.3	0.1	89	10	Str.		*
Febr. 8.	4	79 56	134 51	SW <sup>b</sup> S	6.2	64.8	-37.5	0.2	89	10	Str.		*
	8	- 55	- 51	SW <sup>b</sup> W	6.3	62.8	-33.9	0.2	90	10	Str.		*
	Noon	- 55	- 52	SW	4.8	61.2	-29.8	0.4	91	10	Str.		*
	5	- 55	- 53	SW	3.9	59.4	-26.2	0.5	92	10°			m
	8	- 55	- 54	SW <sup>b</sup> W	3.9	59.4	-27.7	0.4	92	10	Str.		
	Mn.	- 55	- 55	SW <sup>b</sup> W	4.2	59.1	-25.8	0.5	93	10	Str.		
Febr. 9.	4	79 55	134 55	SW <sup>b</sup> W	2.8	58.8	-28.1	0.4	93				
	8	- 55	- 56	SW <sup>b</sup> W	1.9	58.9	-27.7	0.4	93	10	Str.		*
	Noon	- 55	- 57	SW <sup>b</sup> W	1.8	58.6	-28.1	0.4	93	10	Cust.		*
	4	- 55	- 58	S <sup>b</sup> W	1.4	58.6	-29.0	0.4	94	10	Cust.		*
	8	- 55	- 57	SE <sup>b</sup> S	2.2	59.2	-33.8	0.3	93	0			
	Mn.	- 55	- 55	SE <sup>b</sup> S	2.0	60.1	-35.4	0.2	93	0			
Febr. 10.	4	79 55	134 54	SE <sup>b</sup> S	2.0	60.5	-36.9	0.2	93	0			
	8	- 56	- 52	S <sup>b</sup> E	3.7	62.8	-36.7	0.2	93	0			
	Noon	- 56	- 51	SSE	3.4	64.3	-36.8	0.2	92	0			
	4	- 56	- 49	SE <sup>b</sup> S	3.0	66.2	-39.2	0.1	92	0			
	8	- 57	- 48	SE <sup>b</sup> S	3.2	68.2	-40.0	0.1	92	0			
	Mn.	- 57	- 47	SE <sup>b</sup> S	2.4	69.4	-41.7	0.1	91	0			
Febr. 11.	4	79 57	134 45	SE <sup>b</sup> S	2.7	71.1	-41.2	0.1	91	0			

<sup>1</sup> 1 p. m. Cust. NW.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Febr. 11.	8	79° 58'	134° 44'	SE <sup>b</sup> E	3.4	772.3	-41.5	0.1	91	0			
	Noon	- 58	- 42	SE <sup>b</sup> E	3.9	73.6	-41.5	0.1	91	0			
	4	- 58	- 41	SE <sup>b</sup> E	3.5	75.1	-43.0	0.1	91	0			
	8	- 59	- 39	SE <sup>b</sup> E	2.7	76.2	-43.7	0.1	91	0			
	Mn.	- 59	- 38	SE <sup>b</sup> E	2.8	77.1	-42.8	0.1	91	0			
Febr. 12.	4	79 59	134 36	SE <sup>b</sup> E	3.6	77.2	-42.5	0.1	91	0			
	8.15	80 0	- 35	ESE	3.4	77.5	-42.9	0.1	91	0			
	Noon	- 0	- 34	E <sup>b</sup> S	3.1	77.5	-43.0	0.1	89	0			
	4	- 0	- 32	E <sup>b</sup> N	2.6	77.6	-43.8	0.1	89	0			
	8	- 0	- 31	NE <sup>b</sup> E	3.0	77.0	-44.5	0.1	89	0			
	Mn.	- 0	- 27	NE	3.0	75.9	-44.1	0.1	89	0			
Febr. 13.	4	80 0	134 24	N <sup>b</sup> W	3.4	74.4	-44.7	0.1	89	0			
	8	- 0	- 21	N <sup>b</sup> E	4.0	73.0	-42.8	0.1	89	0			
	Noon	- 0	- 18	N	4.3	71.7	-42.1	0.1	89	0			1
	4	- 0	- 16	N <sup>b</sup> E	4.4	70.1	-41.7	0.1	89	0			2
	8	- 0	- 13	N <sup>b</sup> E	4.4	69.3	-40.4	0.1	89	10°			3
	Mn.	- 0	- 10	NNE	3.6	68.7	-38.3	0.2	90	10			m
Febr. 14.	4	80 0	134 7	NE <sup>b</sup> N	4.0	66.8	-36.7	0.2	91				
	8.15	- 0	- 4	NE <sup>b</sup> N	4.0	66.8	-36.7	0.2	91	10°	Str.		
	Noon	- 0	- 2	N	1.9	66.8	-36.9	0.2	91	10°			m
	4	- 0	133 59			67.8							
	6.15	- 0	- 59	S <sup>b</sup> W	1.3	68.3	-39.0	0.1	90	5°			m <sup>4</sup>
	8	- 0	- 58	SE <sup>b</sup> S	1.6	68.7	-40.5	0.1	90	5°			m <sup>5</sup>
Febr. 15.	Mn.	- 0	- 58		0	68.6	-41.6	0.1	90	0			
	4	80 1	133 57		0	68.2	-40.3	0.1	90	0			
	8	- 1	- 57	NW <sup>b</sup> N	1.8	66.8	-42.1	0.1	89	0			6
	Noon	- 1	- 56	N	3.3	64.9	-42.3	0.1	89	0			
	4	- 2	- 56	NW	4.0	63.3	-40.5	0.1	89	0			
	5.30	- 2	- 55							10°			m
Febr. 16.	8	- 2	- 55	NW	4.1	62.2	-39.6	0.1	90	10°			m <sup>7</sup>
	Mn.	- 2	- 55	NW <sup>b</sup> W	2.6	61.5	-41.1	0.1	90	0			8
	4	80 2	133 54	NW <sup>b</sup> W	2.5	61.9	-43.7	0.1	89	3	Cu.		
	8	- 3	- 53		0	62.2	-44.4	0.1	89	0			9
	Noon	- 3	- 53		0	62.8	-44.6	0.1	88	0			
	4	- 3	- 52	N <sup>b</sup> W	1.5	63.0	-43.7	0.1	89	0			10
Febr. 17.	8	- 3	- 52	NW	2.4	62.8	-42.6	0.1	89	0			
	Mn.	- 3	- 51	NNW	3.3	61.7	-38.4	0.2	90	10	Cust.		11
	4	80 3	133 51	N <sup>b</sup> W	2.5	60.6	-38.5	0.2	90	10	Str.		
	8.15	- 3	- 50	N <sup>b</sup> E	4.6	58.9	-40.8	0.1	90	0			
	Noon	- 3	- 49	NNE	3.4	57.3	-41.8	0.1	89	0			
	4	- 2	- 49	ENE	3.4	56.7	-42.0	0.1	89	0			

<sup>1</sup> Frosty fog over the ice.  
<sup>2</sup> Faint  $\mathbb{W}$ .  
<sup>3</sup> Faint  $\mathbb{W}$ .  
<sup>4</sup>  $\mathbb{W}$ .  
<sup>5</sup>  $\mathbb{W}$ .  
<sup>6</sup>  $\mathbb{W}$ . Frosty fog over the ice.  
<sup>7</sup>  $\mathbb{W}$   $\mathbb{W}$ .  
<sup>8</sup> 11 p. m. Some cicu. NW  $\mathbb{W}$   $\mathbb{W}$ .  
<sup>9</sup> Frosty fog over the ice.  
<sup>10</sup>  $\mathbb{W}$ .  
<sup>11</sup>  $\mathbb{W}$ .

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Febr. 17.	8	80° 2'	133° 48'	NE <sup>b</sup> N	2.9	756.5	-41.5	0.1	89	9°	Cicu.		1
	Mn.	- 2	- 48	NE <sup>b</sup> E	2.1	55.6	-39.1	0.1	89	9°	Cicu.		
Febr. 18.	4	80 2	133 47	NE <sup>b</sup> E	1.5	55.2	-38.1	0.2	90	9°	Cicu.		2
	8	- 2	- 47	NE <sup>b</sup> E	2.0	54.9	-42.9	0.1	89	0			
	Noon	- 2	- 46	NNE	1.7	53.7	-43.4	0.1	89	9	Cicu.		
	4	- 2	- 46	NW <sup>b</sup> N	1.9	52.4	-44.5	0.1	89	0			
	8	- 2	- 45	SW <sup>b</sup> W	1.2	51.5	-45.3	0.1	88	0			
	Mn.	- 2	- 46	SW <sup>b</sup> W	1.2	50.5	-40.4	0.1	89	0			
Febr. 19.	4	80 2	133 47	S <sup>b</sup> W	1.8	49.2	-46.1	0.1	88	0			3 m
	8	- 2	- 48	S <sup>b</sup> W	2.4	48.8	-44.7	0.1	88	0			
	Noon	- 2	- 50	S <sup>b</sup> W	3.9	48.3	-43.3	0.1	88	0			
	4	- 3	- 51	S	5.0	47.6	-42.4	0.1	89	0			
	8	- 3	- 52	S <sup>b</sup> E	3.9	47.1	-41.5	0.1	89	0			
	Mn.	- 3	- 54	S <sup>b</sup> E	4.7	45.1	-38.3	0.2	90	3			
Febr. 20.	4	80 3	133 55	S	5.6	43.2	-35.4	0.2	93	0			m <sup>4</sup> m m <sup>5</sup> m <sup>6</sup> m*
	8	- 3	- 56	S	5.3	41.6	-35.1	0.2	93	10°			
	Noon	- 3	- 58	S	7.6	39.7	-33.4	0.3	92	10	Str.		
	4	- 4	- 59	S <sup>b</sup> E	5.2	38.2	-34.6	0.2	92	10°			
	8	- 4	- 59	SSE	5.0	36.6	-34.6	0.2	92	0			
	Mn.	- 4	- 58	SSE	5.3	33.9	-29.6	0.4	93	10			
Febr. 21.	4	80 5	133 57	S <sup>b</sup> E	5.2	32.6	-27.3	0.5	95	10			m* * * * * *
	8	- 5	- 56	S <sup>b</sup> E	6.0	31.1	-26.6	0.5	95	10	Str.		
	Noon	- 6	- 55	S <sup>b</sup> E	6.3	29.9	-25.4	0.5	95	10	Cust.		
	4	- 6	- 55	S <sup>b</sup> E	5.2	29.3	-24.2	0.6	96	10	Str.		
	8	- 7	- 54	S <sup>b</sup> E	5.8	28.6	-21.5	0.8	97	10	Str.		
	Mn.	- 7	- 53	SSW	7.2	28.2	-18.9	1.0	98	10	Str.		
Febr. 22.	4	80 8	133 52	S <sup>b</sup> W	5.4	28.2	-20.5	0.9	98	10	Str.		* * * * m
	8	- 8	- 51	S <sup>b</sup> W	5.5	28.3	-19.4	1.0	98	10	Str.		
	Noon	- 9	- 50	SSW	3.4	29.9	-18.5	1.0	100	10	Str.		
	4	- 9	- 49	SW <sup>b</sup> S	3.6	32.3	-19.4	1.0	100	10	Cust.		
	8	- 10	- 50	N <sup>b</sup> W	6.4	35.2	-23.9	0.4	98	10	Str.		
	Mn.	- 10	- 50	N <sup>b</sup> W	6.0	37.7	-33.3	0.3	96	10			
Febr. 23.	4	80 9	133 51	N <sup>b</sup> W	6.4	41.1	-35.9	0.2	95	5			m m m
	8	- 9	- 52	NW <sup>b</sup> N	6.0	44.7	-38.4	0.2	95	0			
	Noon	- 8	- 54	NW <sup>b</sup> W	6.2	47.9	-40.2	0.1	95	10°			
	5	- 8	- 55	NW <sup>b</sup> W	6.3	52.1	-41.2	0.1	99	0			
	8	- 8	- 56	WNW	5.8	54.3	-40.9	0.1	98	0			
	Mn.	- 7	- 57	WSW	4.6	56.0	-40.6	0.1	93	0			
Febr. 24.	4	80 7	133 58	WSW	4.7	56.8	-40.1	0.1	93	0			0 0 0 0 0 0
	8	- 7	- 59	WSW	2.7	58.8	-39.0	0.1	93	0			
	Noon	- 6	134 0	SW <sup>b</sup> W	2.1	59.3	-37.8	0.2	93	0			
	4	- 6	- 1	SW <sup>b</sup> S	2.0	60.2	-33.5	0.2	92	0			
	8	- 6	- 5		0	60.2	-39.1	0.1	91	0			
	Mn.	- 6	- 10	S <sup>b</sup> W	1.8	61.5	-37.5	0.2	91	0			

<sup>1</sup> Upper part of ☐.<sup>2</sup> Glow of the sun seen above the horiz.<sup>3</sup> Strong, intensely white light over the ice on the horiz. Vertically under the moon.<sup>4</sup> ☐.<sup>5</sup> ☐.<sup>6</sup> ☐°.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Febr. 25.	4	80° 6'	134° 15'	S <sup>b</sup> W	2.3	761.4	-34.6	0.2	92	0			
	8	- 6	- 20	S <sup>b</sup> E	3.7	60.4	-32.2	0.3	92	9			
	Noon	- 5	- 25	SSW	3.9	59.5	-30.5	0.3	93	9°	Cicu.	W	
	4	- 5	- 30	SW	7.2	59.0	-24.1	0.6	95	10	Cicu.	W	1
	8	- 5	- 35	SW <sup>b</sup> W	7.6	58.7	-24.1	0.6	95	0	Cust.		
	Mn.	- 5	- 40	SW <sup>b</sup> W	5.5	58.5	-24.9	0.5	95	0			2
Febr. 26.	4	80 5	134 46	SW <sup>b</sup> S	8.1	56.6	-23.4	0.6	95	3	Cu.		
	8	- 5	- 51	SW <sup>b</sup> S	10.1	53.8	-20.7	0.8	97	10	Str.Sn.sk.		* <sup>2</sup>
	Noon	- 5	- 56	SW <sup>b</sup> S	9.1	50.3	-19.4	1.0	98	10			* <sup>2</sup>
	4	- 5	135 1	SW <sup>b</sup> S	12.5	45.4	-17.4	1.1	99	10			* <sup>2</sup>
	8	- 5	- 6	SW	10.6	41.2	-15.7			10			* <sup>2</sup>
	Mn.	- 5	- 11	SW	7.2	38.3	-13.6			10			* <sup>2</sup>
Febr. 27.	4	80 5	135 16	SW <sup>b</sup> W	9.3	35.0	-11.2			10			* <sup>2</sup>
	8	- 5	- 21	W <sup>b</sup> N	8.8	34.8	-10.1	2.1	99	10	Str.		
	Noon	- 5	- 26	W <sup>b</sup> N	8.1	36.5	-13.3	1.5	96	10	Str.		
	4	- 4	- 31	W <sup>b</sup> N	7.2	38.5	-19.1	0.9	94	5	Cu.	NW	
	8	- 4	- 36	NW <sup>b</sup> W	3.3	40.0	-23.0	0.6	93	2	Cicu.	W	3
	Mn.	- 4	- 34	W	3.2	40.7	-26.3	0.4	83	0			4
Febr. 28.	4	80 4	135 32	WNW	2.2	41.4	-26.7	0.4	87				5
	8	- 3	- 31	NW <sup>b</sup> N	3.5	43.2	-25.6	0.5	87	10	Str.		
	Noon	- 3	- 29	W <sup>b</sup> N	1.3	44.5	-26.5	0.4	87	10°	Cicu.		6
	4	- 3	- 27	W <sup>b</sup> S	2.7	45.1	-27.1	0.5	86	10°	Cicu.		
	8	- 3	- 25	SW	3.1	44.2	-30.2	0.3	85	10°	Cicu.		
	Mn.	- 2	- 23	S	3.8	40.9	-24.8	0.5	87	10	Cust.		*
March 1.	4	80 2	135 22	S <sup>b</sup> W	2.4	48.2	-19.9	0.7	91	10	Cust.		* <sup>2</sup>
	8	- 2	- 20	WNW	3.5	37.8	-19.3	0.9	92	10	Cust.		
	Noon	- 1	- 18		0.5	37.3	-19.5	0.9	92	10	Str.		
	4	- 1	- 16	S <sup>b</sup> E	2.2	35.6	-19.8	0.9	93	10	Cust.		
	8	- 1	- 15	SE	4.0	33.3	-19.0	0.9	93	10	Cust.		* <sup>7</sup>
	Mn.	- 1	- 13	SE	4.2	30.5	-18.5	1.0	93	10°			
March 2.	4	80 0	135 11	SE <sup>b</sup> E	2.5	28.9	-20.3	0.8	92	9			8
	8	- 0	- 9	E <sup>b</sup> S	2.1	27.7	-22.2	0.7	92	0			
	Noon	- 0	- 7	SE <sup>b</sup> E	2.2	25.8	-20.1	0.8	92	10°	Cu.	SE	m* <sup>9</sup>
	4	79 59	- 6	SW <sup>b</sup> S	2.4	26.1	-22.6	0.7	92	10	Cust.		
	8	- 59	- 4		0	26.7	-26.9	0.5	91	10	Cust.		*
	Mn.	- 59	- 2	SW <sup>b</sup> S	1.7	27.5	-28.8	0.4	89	7			m
March 3.	4	79 58	135 0	NE <sup>b</sup> N	5.4	28.5	-29.1	0.4	89	0			
	8	- 58	134 59	NNE	9.8	31.4	-33.2	0.3	87	10	Cicu. Str.		* <sup>3</sup> 10
	Noon	- 58	- 57	N <sup>b</sup> E	9.6	33.6	-33.5			10	Cust.		* <sup>2</sup>
	4	- 58	- 55	NW <sup>b</sup> N	11.6	34.2	-35.9	0.2	81	10	Cicu.		* <sup>2</sup>
	8	- 57	- 53	NW <sup>b</sup> N	12.5	34.5	-37.1			10			* <sup>2</sup>
	Mn.	- 57	- 52	NW <sup>b</sup> N	10.4	35.0	-38.4			10			* <sup>2</sup>
March 4.	4	79 57	134 50	NW <sup>b</sup> N	8.8	34.9	-37.7			10			* <sup>2</sup>
	8	- 56	- 48	NW	9.6	34.4	-37.2			10	Cust.		

<sup>1</sup> Deep red sky on the horiz. over the sun. The clouds thick, light grey, and the air beneath them clear. Windy.

<sup>2</sup> m. horiz.

<sup>3</sup> Low clouds from S to N.

<sup>4</sup> m. horiz.

<sup>5</sup> m. horiz. except in N. Zenith 0.

<sup>6</sup> Cloud-bank horiz.

<sup>7</sup> Cust. horiz.

<sup>8</sup> Low cist. E.

<sup>9</sup> No sample from the boat-locker, as the snow had been swept off.

<sup>10</sup> Fine driving snow mist all over the ice to a height of several m.; scanty precipitation.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 4.	Noon	79° 56'	134° 46'	NW	9.5	733.6	-36.3	0.2	81	10°			m
	4	- 56	- 44	NW <sup>b</sup> N	7.2	33.7	-36.0	0.2	81	10	Cust.		
	8	- 56	- 43	W <sup>b</sup> N	5.7	33.8	-37.1	0.2	81	0			
	Mn.	- 55	- 44	NW	4.0	32.6	-37.1			0			1
March 5.	4	79 55	134 44	NW <sup>b</sup> W	3.4	31.9	-38.4	0.1	80	0			
	8	- 55	- 45	W <sup>b</sup> N	3.2	31.2	-39.8			3	Cu.		
	Noon	- 54	- 46	NW	3.6	30.8	-40.2			10°			m
	4	- 54	- 46	NW <sup>b</sup> N	4.8	31.9	-43.2			10°			m
	8	- 53	- 47	NW <sup>b</sup> N	4.8	32.9	-44.8	0.1	71	0			
	Mn.	- 53	- 48	N <sup>b</sup> W	4.8	33.8	-45.1	0.1	72	0			
March 6.	4	79 53	134 48	N <sup>b</sup> W	4.5	35.5	-45.8	0.1	72	0			
	8	- 52	- 49	NW <sup>b</sup> N	4.7	36.6	-44.7	0.0	73	10°	Cu.		m
	Noon	- 52	- 50	NW <sup>b</sup> N	4.8	37.0	-44.5	0.1	73	0			
	4	- 52	- 50	NW <sup>b</sup> N	6.2	38.5	-46.0	0.1	73	5	Cu.		
	8	- 51	- 51	NW <sup>b</sup> N	6.8	40.0	-45.9	0.1	73	3	Cu.		
	Mn.	- 51	- 47	NW	6.9	40.8	-44.4	0.1	73	2	Cu.		
March 7.	4	79 51	134 42	W <sup>b</sup> S	7.2	40.9	-42.8	0.1	74	0			
	8	- 50	- 38	WNW	6.4	41.4	-43.4	0.1	74	10			m
	Noon	- 50	- 34	W <sup>b</sup> N	5.7	41.1	-42.4	0.1	74	10°	Cu.		m
	4	- 49	- 30	W <sup>b</sup> N	6.2	41.2	-42.1	0.1	75	10°	Cicu.		
	8	- 49	- 26	W <sup>b</sup> N	6.5	41.5	-41.5	0.1	75	10	Cu.		
	Mn.	- 49	- 22	W <sup>b</sup> N	6.0	40.8	-40.3	0.1	75	10	Cu.		
March 8.	4	79 48	134 17	W <sup>b</sup> N	5.0	40.2	-38.1	0.1	75	0			
	8	- 48	- 13	W <sup>b</sup> N	4.4	39.9	-39.1	0.1	76	10	Cicu.		
	Noon	- 48	- 9	W <sup>b</sup> N	3.0	39.4	-40.2	0.1	76	10°	Cicu.		
	4	- 46	- 5	NW <sup>b</sup> N	7.4	41.4	-42.6			10	Cicu.		
	8	- 45	- 1	N <sup>b</sup> E	8.5	44.1	-48.1			10	Cicu.		
	Mn.	- 45	- 2	N <sup>b</sup> E	6.5	46.0	-48.6	0.04	70				
March 9.	4	79 45	134 4	N <sup>b</sup> E	5.8	47.8	-47.5	0.04	70	10			
	8	- 44	- 6	N <sup>b</sup> W	5.8	49.1	-48.5	0.04	70	10	Cu.		m
	Noon	- 44	- 9	NW <sup>b</sup> N	6.0	49.2	-47.4	0.04	70	10	Cicu.		
	4	- 44	- 11	N <sup>b</sup> W	4.7	51.7	-46.7	0.04	71	10	Cicu.		
	8	- 44	- 13	N <sup>b</sup> W	5.2	52.2	-47.1	0.04	71	0			
	Mn.	- 44	- 16	NW	4.2	52.7	-47.4	0.04	71	0			
March 10.	4	79 43	134 18	N <sup>b</sup> W	4.4	52.4	-46.9	0.04	72	0			
	8	- 43	- 20	W <sup>b</sup> N	2.9	51.8	-47.2	0.04	72				2
	Noon	- 43	- 22	WSW	3.0	51.3	-45.5	0.1	72	0			
	4	- 43	- 25	S <sup>b</sup> W	0.5	50.4	-45.4	0.1	72	0			
	8	- 43	- 27	S <sup>b</sup> W	0.5	50.5	-45.4	0.1	71	0			
	Mn.	- 43	- 26	NE <sup>b</sup> E	1.4	51.1	-46.4	0.1	72	0			
March 11.	4	79 42	134 25	N <sup>b</sup> E	1.6	52.0	-46.1	0.1	71	0			
	8	- 42	- 23	NNE	4.3	53.0	-49.2	0.03	71	0			
	Noon	- 42	- 22	NNE	4.0	54.9	-50.5	0.03	70	0			
	4	- 42	- 21	NE <sup>b</sup> N	4.2	57.5	-50.5	0.03	70	0			
	8	- 42	- 19	NE <sup>b</sup> N	5.4	59.9	-51.3	0.03	70	0			
	Mn.	- 41	- 18	NE <sup>b</sup> N	4.5	61.9	-51.4	0.03	70	0			
March 12.	4	79 41	134 17	NE <sup>b</sup> N	5.0	63.8	-51.7	0.03	70	0			
	8	- 41	- 15	N <sup>b</sup> E	3.5	65.7	-49.4	0.03	71	0			
	Noon	- 41	- 14	NE <sup>b</sup> N	4.3	67.3	-48.1	0.04	71	0			

<sup>1</sup> m. horiz.<sup>2</sup> m. horiz.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m p.s.					Am.	Form.	Dir.	
March 12.	4	79°40'	134°13'	N <sup>b</sup> W	5.4	768.2	-47.1	0.04	71	0			m <sup>1</sup>
	8	- 40	- 11	N <sup>b</sup> W	5.2	68.7	-45.4	0.1	72	10°			
	Mn.	- 40	- 10	N <sup>b</sup> W	5.0	68.7	-42.3	0.1	72	0			
March 13.	4	79 40	134 9	N	6.3	68.7	-40.1	0.1	73				
	8	- 40	- 7	NNW	6.2	68.9	-40.2	0.1	73	0			
	Noon	- 39	- 6	N <sup>b</sup> W	5.0	69.2	-40.3	0.1	73	0			
	4	- 39	- 5	NW	4.2	68.6	-40.6	0.1	73	0			
	8	- 39	- 3	NW <sup>b</sup> W	4.8	68.1	-42.1	0.1	73	0			
	Mn.	- 39	- 7	W <sup>b</sup> N	4.9	65.4	-41.1	0.1	72	0			
March 14.	4	79 39	134 13	W	6.6	61.7	-39.8	0.1	72	0			
	8	- 39	- 19	W <sup>b</sup> N	4.7	58.9	-40.1	0.1	73	10°	Cicu.		
	Noon	- 39	- 24	W <sup>b</sup> N	4.5	56.8	-38.4	0.1	73	10°	Cicu.		
	4	- 39	- 30	W <sup>b</sup> N	3.2	56.2	-37.5	0.1	74	5	Cu.		
	8	- 39	- 35	WNW	1.8	55.7	-39.7	0.1	74	0			
	Mn.	- 39	- 41	NW <sup>b</sup> N	1.7	56.2	-40.8	0.1	74	0			
March 15.	4	79 39	134 41		0	56.8	-41.3	0.1	73	0			2
	8	- 39	- 52	NW <sup>b</sup> N	1.7	58.3	-41.8	0.1	73	10°	Ci.		
	Noon	- 39	- 58	W <sup>b</sup> N	2.2	58.8	-40.9	0.1	73	0			
	4	- 39	135 3	W <sup>b</sup> N	3.2	59.2	-39.1	0.1	74	0			
	8	- 39	- 9	W <sup>b</sup> N	2.7	59.4	-40.8	0.1	74	3	Cu.		
	Mn.	- 38	- 10	W <sup>b</sup> N	3.2	58.5	-41.1	0.1	74	0			
March 16.	4.15	79 38	135 10	W <sup>b</sup> S	4.5	57.0	-39.1	0.1	74	10	Cust.		*° *°
	8	- 38	- 10	W	4.5	54.8	-37.2	0.1	75	10	Cust.		
	Noon	- 38	- 10	SW <sup>b</sup> W	5.0	51.7	-34.0	0.2	75	10	Str.		
	4	- 38	- 10	SW	6.6	47.8	-31.5	0.2	75	10	Str.		
	8	- 38	- 10	WSW	6.4	44.5	-29.7	0.3	79	10°	Cicu.		
	Mn.	- 38	- 11	W	5.2	42.7	-28.2	0.3	79	10°	Cicu.		
March 17.	4	79 38	135 11	N <sup>b</sup> W	3.0	41.8	-29.3	0.3	79	10	Str.		*° * *
	8	- 38	- 11	NE	3.1	41.9	-34.0	0.2	76	10	Snow.sk.		
	Noon	- 38	- 11	NE <sup>b</sup> E	5.2	43.3	-37.4	0.2	79	10	Snow.sk.		
	4	- 38	- 11	ENE	5.0	44.5	-40.6	0.1	76	10	Str.		
	8.15	- 38	- 11	ENE	5.6	45.6	-42.9	0.1	74	10°	Cicu.	WSW	
	Mn.	- 38	- 11	ENE	4.7	46.3	-44.3	0.1	72	10°	Cicu.		
March 18.	4	79 38	135 11	ENE	3.8	46.7	-46.1	0.1	75				3
	8	- 38	- 12	NE <sup>b</sup> N	4.2	46.9	-46.5	0.1	74	10°	Cicu.	W	
	Noon	- 38	- 12	NE <sup>b</sup> N	3.5	47.0	-45.5	0.1	74	10°	Ci.		
	4	- 38	- 12	NNE	4.1	47.2	-44.5	0.1	75	0			
	8	- 38	- 12	N <sup>b</sup> E	3.0	47.8	-46.7	0.0	75	0			
	Mn.	- 38	- 12	NW <sup>b</sup> N	2.5	48.8	-47.6	0.1	79	0			
March 19.	4	79 39	135 12	W <sup>b</sup> N	3.0	48.8	-47.5	0.1	76	0			4 m
	8.14	- 39	- 12	SW	2.6	49.8	-46.1	0.1	77	0			
	Noon	- 39	- 12	SW <sup>b</sup> W	5.2	50.1	-43.1	0.1	78	0			
	4	- 39	- 12	SW	4.8	51.4	-42.3	0.1	77	0			
	8	- 39	- 12	SSW	2.6	53.4	-43.9	0.1	77				
	Mn.	- 40	- 11	WSW	3.4	53.9	-42.3	0.1	80				
March 20.	4	79 41	135 9	S	5.0	54.0	-38.6	0.1	81				m m m
	8	- 42	- 8	S	6.9	53.0	-37.1	0.2	80	10°			
	Noon	- 43	- 7	S	7.3	51.6	-35.9	0.2	79	10°			

<sup>1</sup> Cloud-banks horiz. especially in NW.  
<sup>2</sup> 2 mock-suns, faint rainbow-coloured stripes on each side of the sun.  
<sup>3</sup> Frosty fog.  
<sup>4</sup> Some cu. in W.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 20.	4	79° 44'	135° 6'	S	7.6	750.6	-34.0	0.2	72	10	Cust.	S	1
	8	- 45	- 4	S	6.5	51.1	-33.5	0.2	84	10	Cicu.		
	Mn.	- 46	- 3	S	4.7	51.3	-34.1	0.2	85	10	Ci.		
March 21.	4	79 47	135 1	SE <sup>b</sup> S	2.5	51.9	-34.3	0.2	82	10	Cicu.		m
	8	- 48	134 59	SSE	4.0	52.1	-32.2	0.3	84	10	Cicu.		
	Noon	- 49	- 58	SE <sup>b</sup> S	4.6	52.6	-32.3	0.3	85	10	Ci.		
	4	- 50	- 57	SE <sup>b</sup> S	4.5	52.8	-31.1	0.3	86	10			
	8	- 51	- 55	SE <sup>b</sup> S	4.5	52.4	-31.8	0.3	86	10	Cicu.		
	Mn.	- 52	- 54	SE	6.5	51.1	-30.3	0.3	86	10	Cust.		
March 22.	4	79 53	134 53	SE	6.0	50.2			88	10			m
	8	- 54	- 52	SE	7.5	48.0	-27.9	0.4	86	10	Cicu.		
	Noon	- 55	- 50	SE	7.3	46.1	-26.4	0.5	87	10	Ci.	S	
	4	- 56	- 49	SE	8.5	44.3	-26.6	0.5	88	10°	Ci.		
	8	- 57	- 48	SE <sup>b</sup> E	10.2	42.4	-27.6	0.4	88	10	Cu.		
	Mn.	- 58	- 46	SE <sup>b</sup> E	10.2	39.4	-26.3	0.5	89	10	Cicu.		
March 23.	4	79 59	134 45	SE <sup>b</sup> E	9.5	38.6	-25.7	0.5	87	10	Cu.		m
	8	80 0	- 44	SE <sup>b</sup> E	8.0	35.8	-23.0	0.6	91	10°	Ci.		
	Noon	- 1	- 43	S <sup>b</sup> W	7.2	38.3	-28.5	0.4	89	10	Cicu.	S	
	4.30	- 1	- 42	S <sup>b</sup> W	3.5	41.0	-29.6	0.3	86	0			
	8	- 1	- 41	S <sup>b</sup> W	3.0	43.0	-34.5	0.2	87	0			
	Mn.	- 1	- 42	S <sup>b</sup> E	2.2	43.4	-37.1	0.2	86	0			
March 24.	4	80 1	134 42	SSE	2.8	43.3	-38.1	0.1	85	0			
	8	- 1	- 42	SSE	2.2	43.2	-38.1	0.1	85	0			
	Noon	- 1	- 43	S <sup>b</sup> E	3.0	43.3	-35.2	0.2	86	0			
	4	- 1	- 44	S <sup>b</sup> E	2.5	43.6	-34.8	0.2	86	0			
	8	- 1	- 45	SE <sup>b</sup> E	4.2	43.6	-35.4	0.2	86	0			
	Mn.	- 1	- 45	S <sup>b</sup> W	1.4	43.1	-38.3	0.2	85	0			
March 25.	2	80 1	134 46		0	42.7	-39.6	0.1	85	0			2
	4	- 1	- 46	SE	1.6	42.5	-41.1	0.1	85	0			
	6	- 1	- 46		0	42.9	-41.0	0.1	84	0			
	8	- 1	- 46		0	42.9	-41.1	0.1	84	0			
	10	- 2	- 47	WNW	1.9				84	0			
	1.15	- 2	- 47	NW <sup>b</sup> N	3.3	44.5	-39.1	0.1	84	0			
	2.30	- 2	- 47	W <sup>b</sup> N	2.6				85	0			
	4	- 2	- 48	W <sup>b</sup> S	3.0	45.8	-38.3	0.1	84	0			
	6	- 2	- 48	WSW	2.7				84	0			
	8	- 2	- 48	SW <sup>b</sup> W	2.9	47.3	-42.0	0.1	84	10°	Ci.	SW	
	10	- 2	- 49	SW	3.2				84	10°			
	Mn.	- 2	- 49	SW	2.5	48.4	-42.4	0.1	83	10°			
March 26.	2	80 2	134 49	S <sup>b</sup> W	1.4				84	0			m
	4	- 2	- 49	SW <sup>b</sup> W	0.5	48.5	-43.1	0.1	83	0			
	6	- 2	- 50	S <sup>b</sup> W	2.5				84	0			
	8	- 2	- 50	S <sup>b</sup> W	2.4	48.4	-40.8	0.1	84	0			
	10	- 2	- 50	S <sup>b</sup> W	2.0				84	0			
	Noon	- 2	- 51	S	3.0	47.9	-37.1	0.2	85	5	Ci.	NW	
	2	- 2	- 51	S	2.5				85	0			
	4	- 2	- 51	S	1.7	47.6	-35.2	0.2	86	0			
	6	- 2	- 52	ESE	2.7				86	0			
	8	- 2	- 52	E <sup>b</sup> N	1.9	46.8	-38.8	0.1	85	0			
	10	- 2	- 52	NE <sup>b</sup> N	2.0				84	0			
	Mn.	- 3	- 52	E <sup>b</sup> N	2.2	45.5	-39.9	0.1	84	0			

<sup>1</sup> U

<sup>2</sup> Frosty fog over the various lanes in the ice.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 27.	2	80° 3'	134° 52'	N <sup>b</sup> E	2.0				85				
	4	- 3	- 53	NE <sup>b</sup> E	2.9	745.5	-38.4	0.1	85	0			
	6	- 4	- 53	NNE	3.6				84				
	8	- 4	- 53	N <sup>b</sup> E	3.6	45.5	-37.1	0.2	85	0			
	10	- 4	- 53	N <sup>b</sup> E	3.3				85	0			
	Noon	- 5	- 53	N	4.4	47.0	-35.4	0.2	86	0			
	2	- 5	- 53	N	3.9				85	0			
	4	- 5	- 54	NNW	3.9	48.3	-36.0	0.2	86	0			
	6	- 5	- 54	N <sup>b</sup> W	2.9				85	0			
	8	- 4	- 54	N	2.2	50.4	-38.5	0.1	84	0			
	10.30	- 4	- 54	NNE	1.4		-38.9	0.1	84	0			
	Mn.	- 4	- 54		0	52.6			84	0			
March 28.	2	80 4	134 54	N <sup>b</sup> E	1.6				83	0			
	4	- 4	- 54		0	52.8	-38.1	0.1	84	0			
	6	- 4	- 55	SE <sup>b</sup> S	0.5				84	0			
	8	- 4	- 55	SE <sup>b</sup> S	1.7	53.7	-37.0	0.2	84	10°	Ci.	SW	
	10	- 4	- 55	SSE	2.1				84	0			
	Noon	- 4	- 55	SE <sup>b</sup> S	2.2	54.3	-34.1	0.2	84	10°	Ci.		
	2	- 4	- 55	SE	3.2				85	6°	Ci.	SW	
	4	- 4	- 55	SE <sup>b</sup> E	4.0	53.9	-33.9	0.2	86	10°	Ci.	SW	
	6	- 5	- 56	SE <sup>b</sup> E	4.0				86	8°	Ci.	SW	
	8	- 5	- 56	SE <sup>b</sup> S	4.7	53.9	-33.0	0.3	86	10°	Cicu.	SW	
	10.30	- 5	- 56	SE	4.0				86	10	Str.		*°
	Mn.	- 5	- 56	SE	4.8	52.7	-30.5	0.3	87	10	Cust.		*°
March 29.	2	80 5	134 56	SE	3.2		-28.9		87	10°			
	4	- 6	- 56	SE	4.0	51.4		0.4	87	10	Cust.		
	6	- 6	- 56	SE <sup>b</sup> S	4.6				88	0			
	8.15	- 6	- 57	SSE	4.5	49.6	-28.4	0.4	88	10°	Cicu.		
	10	- 6	- 57	SE <sup>b</sup> S	5.4				89	10	Str.		
	Noon	- 6	- 57	SE	6.2	47.5	-24.1	0.6	90	10	Str.		*°
	2	- 7	- 57	SE	6.0				90	10	Str.		*
	4	- 7	- 57	SE <sup>b</sup> E	7.2	42.2	-20.9	0.8	92	10	Str.		*
	6	- 7	- 57	SE <sup>b</sup> S	8.8				93	10	Str.		*
	8	- 7	- 58	SSE	6.2	39.0	-17.2	1.1	95	10	Cust.		*
	10	- 7	- 58	SSE	6.6				97	10	Cust.		*
	Mn.	- 8	- 58	SSE	5.8	35.6	-16.6	1.1	96				*
March 30.	2	80 8	134 58	S	5.4				96	10			*
	4	- 8	- 58	SW	4.5	34.3	-17.6	1.1	94	10			*
	6	- 8	- 58	SW	6.7				91	9			*
	8	- 8	- 59	SSW	7.3	34.8	-20.3	0.8	89	10			*
	10	- 9	- 59	SSW	7.6				86	10	Ci.		
	Noon	- 9	- 59	SSW	8.4	36.2	-25.5	0.5	86	10	Cicu.		
	2	- 9	- 59	SSW	5.3				85	10°	Cu.		m
	4	- 8	- 59	S <sup>b</sup> W	3.5	36.5	-24.3	0.5	85	10°	Cust.		
	6	- 8	- 59		0				86	10	Str.		
	8	- 8	- 59	NNE	1.9	36.4	-24.6	0.5	85	10	Cust.	NW	
	10	- 7	135 0	N <sup>b</sup> E	2.1				85	10	Cust.	NW	
	Mn.	- 7	- 0	NW <sup>b</sup> N	4.8	36.1	-25.2	0.5	85	10			*
March 31.	2	80 7	135 0	NW <sup>b</sup> N	6.5				82	10	Str.		
	4	- 7	- 0	NW	7.6	36.1	-28.7	0.3	81	10	Str.		
	6	- 6	- 0	NW <sup>b</sup> W	7.2				81	10°			
	8	- 6	- 0	WNW	7.6	41.0	-31.2	0.3	81	10°	Cicu.	NW	
	10	- 6	- 1	W <sup>b</sup> N	7.6				83	10°			m <sup>1</sup>

<sup>1</sup> Bow round the sun, most distinct above and at the sides.



1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.			
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.				
March 31.	Noon	80° 6'	135° 1'	W <sup>b</sup> N	7.8	744.9	-33.0	0.2	79	0			1			
	2	- 6	- 1	W	5.5				79	0						
	4	- 6	- 1	W	5.1	48.8	-31.5	0.3	80	10°	Cicu.	W				
	6	- 6	- 0	SW	3.9				81	5	Ci.					
	8	- 6	134 58	SSW	2.2					10°	Cicu.					
	10	- 6	- 57	SSW	2.5		-32.5	0.3	81	6	Cicu.					
	Mn.	- 7	- 57	SSE	2.4	51.9			83	0						
April 1.	2	80 7	134 56	SE <sup>b</sup> S	2.5				83	0		SE SE	2 * * * * *			
	4	- 7	- 56	S <sup>b</sup> E	3.0	51.4	-32.3	0.3	83	0						
	6	- 8	- 56	S <sup>b</sup> E	2.8				83	10	Cicu.					
	8	- 8	- 55	SE	3.9	49.8	-30.5	0.3	83	10	Cicu.					
	10	- 8	- 55	SE <sup>b</sup> E	4.2				85	10	Cust.					
	Noon	- 9	- 54	ESE	7.5	45.6	-24.2	0.5	79	10	Str.Sn.sk.					
	2	- 9	- 54	ESE	9.4				79	10	Cust.					
	4	- 10	- 54	ESE	10.8	38.9	-20.9	0.7	86	10	Str.					
	6	- 10	- 53	ESE	8.8				89	10	Str.					
	8	- 10	- 53	ESE	10.1	33.3	-21.1	0.7	89	10	Str.					
	10	- 11	- 52	SE	7.4				90	10	Str.					
	Mn.	- 11	- 52	SE <sup>b</sup> S	7.5	31.2	-22.6	0.6	87	10	Str.					
	April 2.	2	80 11	134 52	S <sup>b</sup> W	7.0				88	10			Str.	W	*  m m
		4	- 12	- 51	S <sup>b</sup> W	4.6	31.3	-25.7	0.5	85	8			Str.		
6		- 12	- 51	S <sup>b</sup> W	4.0		-26.1	0.5	85	8	Str.					
8		- 12	- 50	SSW	3.0	31.6	-24.5	0.5	85	10°						
10		- 13	- 50	SSW	3.5				85	10°	Ci.					
Noon		- 13	- 50	SW <sup>b</sup> S	1.8	33.1	-24.8			0						
2		- 13	- 49	WSW	2.4					0						
4		- 13	- 49	W <sup>b</sup> N	4.3	37.1	-28.1			0						
6		- 13	- 50	NW <sup>b</sup> W	4.0					0						
8		- 12	- 51	NW <sup>b</sup> W	4.0	42.8	-31.3			0						
10.15		- 12	- 51	WNW	2.6				66	0						
Mn.		- 12	- 52	W <sup>b</sup> N	3.0	46.4	-34.3	0.2	69	0						
April 3.		2	80 11	134 53	W <sup>b</sup> N	1.8				74	0		S W	m m m <sup>3</sup>		
	4	- 11	- 54	W	2.3	50.0	-36.5	0.1	74	0						
	6	- 10	- 55		1.7											
	8	- 10	- 56	NW <sup>b</sup> W	3.0	54.0	-36.9	0.2	77	0						
	10	- 10	- 56	WNW	3.5				77	0						
	Noon	- 9	- 57	WNW	3.5	55.9	-35.1	0.2	78	0						
	2	- 9	- 58	W	3.9				77	0						
	4	- 9	- 59	W <sup>b</sup> S	2.5	59.1	-32.4	0.3	78	0						
	6	- 9	135 0	W <sup>b</sup> S	3.7				79	0						
	8	- 9	- 1	WSW	2.4	61.8	-33.6	0.2	81	0						
	10	- 10	- 2	SSW	0.0				81							
	Mn.	- 10	- 2	SW <sup>b</sup> S	1.8	63.8	-35.8	0.2	82	0						
April 4.	2	80 10	135 3	SW <sup>b</sup> W	2.0				83	0		Cu. Cust. Ci. Ci.	S W	m m m <sup>3</sup>		
	4	- 10	- 4	S	1.4	64.0	-35.4	0.2	84	0						
	6	- 10	- 5	S	3.6				85	3						
	8	- 10	- 6	S <sup>b</sup> W	6.0	63.9	-27.8	0.4	84	10						
	10	- 10	- 7	S <sup>b</sup> W	4.8				84	10						
	Noon	- 10	- 7	S <sup>b</sup> W	6.2	63.3	-24.5	0.6	90	10						
	2	- 10	- 7	S <sup>b</sup> W	5.3				90	10°						
	4	- 10	- 7	S <sup>b</sup> W	6.2	61.8	-25.3	0.5	90	0						
6	- 10	- 7	S <sup>b</sup> W	5.0				88	0							

<sup>1</sup> m. horiz. <sup>2</sup> The entire sun above the horiz. <sup>3</sup> Moved the screen out on to the ice on the port-bow, circ. 60 m. from the ship. The upper part of the screen 1.6 m. above the ice. On board, its height above the ice was 4.2 m.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 4.	8	80° 10'	135° 6'	S <sup>b</sup> W	5.0	761.1	-25.3	0.5	89	0			
	10	- 11	- 6	S <sup>b</sup> E	3.8				87	0			
	Mn.	- 11	- 6	SE <sup>b</sup> S	3.2	59.4	-28.1	0.4	87	0			
April 5.	2	80 11	135 5	SE <sup>b</sup> S	3.0				88	0			
	4	- 11	- 5	SE <sup>b</sup> S	3.5		-27.2	0.4	88	0			
	6	- 11	- 5	ESE	3.6				87	0			
	8	- 11	- 5	ESE	4.5	53.8	-25.0	0.5	89	10	Str.		*°
	10	- 11	- 4	ESE	4.5				90	10	Str.		*°
	Noon	- 11	- 4	SE <sup>b</sup> E	5.7	51.0	-19.6	0.8	89	10	Str.		*°
	2	- 11	- 4	SE <sup>b</sup> E	4.5				88	10	Str.		*°
	4	- 11	- 3	SE <sup>b</sup> E	4.0	48.5	-19.0	0.9	89	10	Str.		*°
	6	- 12	- 3	SE <sup>b</sup> E	4.0				89	10	Str.		*°
	8	- 12	- 3	S <sup>b</sup> W	2.9	48.4	-20.1	0.8	90	9	Str.		
	Mn.	- 12	- 3	S <sup>b</sup> W	2.5	48.8	-27.5	0.4	89	7	Str.		
April 6.	2	80 12	135 2	S <sup>b</sup> W	1.7				87	5	Str.		
	4	- 12	- 2	S <sup>b</sup> W	1.6	49.1	-31.1	0.3	85	5	Str.		
	6	- 12	- 2	S <sup>b</sup> W	2.8				86				
	8	- 12	- 1	S <sup>b</sup> W	2.2	49.9	-28.1	0.4	88	0			
	10	- 12	- 1	S <sup>b</sup> W	2.2				87	0			
	Noon	- 12	- 1	S <sup>b</sup> W	2.6	50.4	-25.9	0.5	87	2	Str.		
	2	- 12	- 1	S <sup>b</sup> W	2.8				86	0			
	4	- 13	- 0	S <sup>b</sup> W	3.0	50.8	-25.8	0.5	86	0			1
	6	- 13	- 0	S <sup>b</sup> W	1.8				81	6	Cist.		
	8	- 13	- 0	S <sup>b</sup> W	1.7	52.2	-30.7	0.3	83	0			
	10.15	- 13	134 59		0				82	0			2
April 7.	Mn.	- 13	- 59		0	53.3	-32.8	0.2	82	0			
	2	80 13	134 58	S <sup>b</sup> W	1.5				82	0			
	4	- 13	- 58		0	54.0	-34.0	0.2	82	0			
	6	- 13	- 57		0				82	0			
	8	- 13	- 56	S <sup>b</sup> W	2.3	56.1	-30.3	0.3	82	0			
	10	- 13	- 56	S <sup>b</sup> W	0.0				82	2	Ci.	S	
	Noon	- 13	- 55	S <sup>b</sup> E	2.0	58.0	-27.1	0.4	84	0			3
	2	- 14	- 55	S <sup>b</sup> E	1.7				81	0			
	4	- 14	- 54	SE <sup>b</sup> S	2.4	58.7	-26.2	0.4	80	3	Ci.	S	
	6	- 14	- 54	ESE	2.0				85	10°	Cicu.	S	
	8	- 14	- 53	ESE	2.7	59.9	-28.3	0.4	88	10°			m
	10	- 14	- 52	ESE	2.9				87	10°			m
April 8.	Mn.	- 14	- 52	SE <sup>b</sup> E	2.8	60.1	-27.4	0.4	87	10°			m
	2	80 14	134 51	ESE	3.0		-29.2	0.3	86	10°			m
	4	- 14	- 51	ESE	4.1	60.4	-28.1	0.4	87	10°			m
	6	- 14	- 50	E <sup>b</sup> S	4.8				10°				m
	8	- 14	- 49	ESE	3.4	60.0	-25.1	0.5	89	10°	Cicu.	SE	4
	10	- 14	- 49	ESE	3.8				89	0			5
	Noon	- 14	- 48	ESE	4.7	60.0	-24.1	0.6	90	9°			
	2	- 14	- 48	ESE	3.0				90	8°	Ci.	SW	6
	4.30	- 14	- 47	SE	3.0	60.9	-24.3	0.6	90	9	Cicu.	SW	
	6	- 14	- 46	SE <sup>b</sup> E	3.3				81	10	Cu.	SW	
	8	- 15	- 46	SE <sup>b</sup> S	2.8	61.3	-24.4	0.5	82	10	Cu.	SW	
	10	- 15	- 45	SE <sup>b</sup> E	3.4				82	10	Cu.		
	Mn.	- 15	- 45	E <sup>b</sup> S	3.0	60.2	-22.9	0.6	83	10	Cu.		

<sup>1</sup> The eclipse of the sun at its highest. <sup>2</sup> Shining bow opposite the sun. <sup>3</sup> m. horiz. <sup>4</sup> 9 a.m. <sup>5</sup> 2 coloured  
 ⊕ with 2 mock-suns and convex bows on the upper edge of each. <sup>6</sup> Some bows of ci. in S and NE.  
<sup>6</sup> ⊙, mock-suns.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 9.	2	80° 15'	134° 44'	ESE	3·2				84	10	Cu.		
	4	- 15	- 43	E <sup>b</sup> S	3·7	760·9	-21·1	0·7	85	10°			m
	6	- 15	- 43	ESE	3·8				85	10			m
	8	- 15	- 42	E <sup>b</sup> S	2·8	60·8	-20·8	0·7	85	2	Ci.	SSE	1
	10	- 15	- 42	E	2·8				86	9°	Cicu.	S	*°
	Noon	- 15	- 43	E <sup>b</sup> S	2·7	61·4	-16·9	1·0	84	10	Cu.	S	*°
	2	- 15	- 44	E <sup>b</sup> S	1·8				84	5	Cu.	SE	2
	4	- 15	- 44	E <sup>b</sup> N	1·9	61·6	-20·0	0·8	86	0			
	6	- 15	- 43	E <sup>b</sup> N	2·3				88	0			
	8	- 15	- 42	N <sup>b</sup> E	1·5	62·7	-25·1	0·5	88	0			
	10	- 16	- 41	NE <sup>b</sup> E	1·4				87	0			
	Mn.	- 16	- 39	E <sup>b</sup> S	1·3	62·8	-28·1	0·4	87	0			
April 10.	2	80 16	134 38	N <sup>b</sup> E	2·7				87	0			
	4	- 16	- 37	N <sup>b</sup> E	1·9	63·3	-28·4	0·4	87	0			
	6	- 17	- 36	ENE	2·3				87				
	8	- 17	- 35	ENE	3·0	63·3	-24·6	0·5	89	0			3
	10	- 17	- 34	ENE	4·0				91	10°	Ci.	NW	4
	Noon	- 17	- 33	ENE	4·1	63·2	-22·2	0·7	91	10°			m
	2	- 17	- 32	NE <sup>b</sup> E	5·3				94	10	Cust.		
	4	- 17	- 31	NE <sup>b</sup> E	5·5	62·6	-20·7	0·8	94	10	Cicu.Str.	NE	
	6	- 17	- 30	ENE	7·8				93	10	Str.		
	8	- 17	- 29	ENE	6·4	62·6	-19·9	0·8	92	10	Cust.	NE	
	10	- 17	- 28	NE <sup>b</sup> E	6·5				10	10	Str.		
	Mn.	- 17	- 27	E	6·2	62·4	-20·9	0·7	89	10	Str.	NE	
April 11.	2	80 16	134 26	E <sup>b</sup> N	6·5				10	10	Cicu.		
	4	- 16	- 24	E <sup>b</sup> N	6·2	61·8	-19·5		10	10	Str.		
	6	- 16	- 23	NE <sup>b</sup> E	6·1				10	10	Str.		
	8	- 16	- 22	NE <sup>b</sup> E	7·5	62·2	-18·8	0·9	94	10	Str.		
	10	- 16	- 21	NE <sup>b</sup> E	8·0				10	10	Str.		
	Noon	- 16	- 20	NE <sup>b</sup> E	7·0	62·6	-17·9	1·0	92	10	Str.		
	2	- 16	- 19	NE <sup>b</sup> E	6·5				92	10	Str.		
	4	- 16	- 18	NE <sup>b</sup> E	6·5	63·3	-18·4	1·0	92	10	Str.		
	6	- 16	- 17	NE <sup>b</sup> E	7·6				92	10	Str.		
	8	- 16	- 16	NE <sup>b</sup> E	5·7	64·2	-18·7	1·0	94	10	Str.	NE	
	10	- 15	- 15	NE <sup>b</sup> E	7·4				95	10	Str.		
	Mn.	- 15	- 14	NNE	5·6	64·7	-18·4	1·0	95	10	Str.		
April 12.	2	80 15	134 13	ENE	5·4				93	10	Str.		
	4	- 15	- 12	NE <sup>b</sup> E	5·4	65·2	-18·2	1·0	93	10	Str.		
	6	- 15	- 11	NE <sup>b</sup> E	5·5				93	10			
	8	- 15	- 9	NE	5·2	65·7	-18·5	1·0	92	10			*
	10	- 15	- 8	NE	6·4				91	10			*
	Noon	- 15	- 7	NE	5·0	66·1	-18·0	1·0	88	10			*
	2	- 15	- 6	NE	5·0				88	10	Cust.	E	*
	4	- 14	- 5	NE <sup>b</sup> N	5·6	66·2			88	10	Cust.	E	*
	6	- 14	- 4	NE <sup>b</sup> N	5·1				88	10	Str.		*
	8	- 14	- 3	NE	5·5	67·1	-18·1	0·9	89	10	Cust.		*
	10	- 14	- 1	NE	4·4	67·1	-17·7	1·0	91	10			*
	Mn.	- 14	- 1	NE									
April 13.	2	80 14	134 0	NE	4·3				88				
	4	- 14	133 59	NE <sup>b</sup> N	4·5	66·9	-18·6	0·9	88	10			
	6	- 14	- 58	NE <sup>b</sup> N	5·7				86	10	Cust.		
	8	- 14	- 57	NE	4·2	67·1	-18·5	0·9	88	10	Cust.	NE	*
	10	- 14	- 56	NE	6·0				88	10	Cust.		*
	Noon	- 13	- 55	NE <sup>b</sup> N	5·4	67·1	-17·9	1·0	87	10	Str.	NE	*

<sup>1</sup> Came up rather quickly, amount of cloud about 3. <sup>2</sup> Faint ☉ with mock-suns. <sup>3</sup> m. over the ice. <sup>4</sup> m. horiz.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 13.	2	80° 13'	133° 53'	NE <sup>b</sup> N	3.9				86	10	Str.		*
	4	- 13	- 52	NE <sup>b</sup> N	5.4	767.1	-18.0	1.0	88	10	Cust.	NE	*
	6	- 13	- 51	NE <sup>b</sup> N	3.7				88	9	Cust.	NE	*
	8	- 13	- 50	NE <sup>b</sup> N	3.5	67.1	-20.8	0.8	93	9	Cu.	NE	
	10	- 13	- 49	N <sup>b</sup> E	2.5				93	10	Cu.	N	
	Mn.	- 13	- 48	N	2.0		-24.1	0.6	90	5			*
April 14.	2	80 13	133 47	NW <sup>b</sup> N	0.0				89	7	Cu.	E	
	4	- 13	- 46	N <sup>b</sup> E	1.7	66.8	-23.5	0.6	90		Cu.		
	8	- 12	- 44		0	66.5	-20.7	0.8	90	10			*
	10	- 12	- 43	E <sup>b</sup> S	1.5				90	10			*
	Noon	- 12	- 42	E <sup>b</sup> N	1.5	66.1	-18.8	0.9	87	10			*
	2	- 12	- 41	E <sup>b</sup> S	1.7				84	10			*
	4	- 12	- 40	SE <sup>b</sup> S	1.7	65.8	-18.2	0.8	78	10			*
	6	- 12	- 38	SE <sup>b</sup> S	1.7				79	10	Cust.		*
	8	- 12	- 37	SE <sup>b</sup> S	2.6	65.7	-19.5	0.8	82	10	Cust.	E	*
	10	- 12	- 36	S <sup>b</sup> E	2.8				84	10	Cust.	W	
	Mn.	- 12	- 35	S <sup>b</sup> E	2.6	65.3	-19.8	0.8	85	10	Cust.		
April 15.	2	80 11	133 34	S	2.5				86	10	Cust.		
	4	- 11	- 33	S	2.9	65.3	-18.3	0.7	86	10	Cust.		
	6	- 11	- 32	S	3.0						Cu.		*
	8	- 11	- 31	S	3.0	65.4	-16.9	1.0	86	10	Cust.	SE	
	10	- 11	- 31	S	3.1				85	10	Cust.		
	Noon	- 11	- 31	S	3.4	65.7	-16.6	1.1	84	10	Cust.	S	
	2	- 11	- 31	S <sup>b</sup> W	4.8				84	10	Cust.		
	4	- 11	- 31	S	5.3	65.8	-17.4	1.0	84	10	Cust.	S	
	6	- 12	- 29	S	3.7				85	2	Cist.		
	8	- 12	- 27	SE <sup>b</sup> S	2.5	65.9	-23.7	0.6	89	1	Cu.		
	10	- 13	- 25	SSE	2.8				89	0			
	Mn.	- 13	- 23	E <sup>b</sup> S	2.3	65.4	-24.5	0.6	90	1	Cu.		
April 16.	2	80 14	133 21	SE <sup>b</sup> E	3.2				90	10	Str.		
	4	- 14	- 19	ESE	4.1	64.1	-16.9	1.1	91	3	Cu.	SE	
	6	- 15	- 17	ESE	6.4				92		Str.		
	8.45	- 15	- 15	SE <sup>b</sup> E	7.5	62.1	-15.4	1.1	87	10	Str.		
	10	- 16	- 13	ESE	7.5				88	10			*
	Noon	- 16	- 11	ESE	9.3	60.9	-13.8	1.3	89	10			*
	2	- 16	- 9	ESE	11.0				88	10°			m*
	4	- 17	- 7	ESE	10.5	59.6	-14.6	1.3	90	10	Str.		*
	6	- 17	- 5	ESE	12.7				93	10	Str.		*
	8	- 18	- 3	ESE	9.0	59.1	-15.0	1.3	91	10	Str.		*
	10	- 18	- 1	ESE	7.8				91	10	Cust.		*
	Mn.	- 19	132 59	SE	7.9	58.9	-14.7	1.3	91	10	Str.		*
April 17.	2	80 19	132 57	ESE	8.5				90	10	Str.		
	4	- 20	- 55	ESE	10.0	59.2	-17.8	1.0	90	10	Str.		
	6	- 20	- 53	SE <sup>b</sup> E	9.8				90	10	Str.		*
	8	- 21	- 51	ESE	8.8	59.6	-18.2	0.9	89	10	Str.		*
	10	- 21	- 50	ESE	8.0				89	10°	Cu.		m
	Noon	- 21	- 51	ESE	9.1	60.0	-16.9			0			
	2	- 21	- 47	ESE	8.5					10°			m
	4	- 22	- 43	ESE	7.7	60.9	-17.8			0			
	6	- 22	- 39	ESE	7.1				87	0			
	8	- 23	- 34	ESE	6.2	61.6	-19.6	0.8	83	3	Ci.		
	10	- 23	- 30	E <sup>b</sup> S	5.3				82	0			3
	Mn.	- 23	- 26	ESE	6.2	61.8	-21.7	0.9	82	0			4

<sup>1</sup> The sun could be seen through the veil of clouds. <sup>2</sup> m. horiz. <sup>3</sup> 11 p. m. A thin veil of ci. drifting from SE.

<sup>4</sup> Sun shining.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 18.	2	80° 24'	132° 22'	E <sup>b</sup> S	6.0								
	4	- 24	- 18	E <sup>b</sup> S	5.8	761.6	-21.6	0.7	82	9	Cust.	SE	
	6	- 25	- 14	E <sup>b</sup> S	6.3				80	1	Cu.		
	8	- 25	- 10	E <sup>b</sup> N	6.9	61.0	-22.8	0.5	78	0			
	10	- 25	- 8	ENE	6.3				79	0			
	Noon	- 25	- 6	ENE	6.0	60.7	-20.9	0.7	77	4	Ci.	E	
	2	- 25	- 5	E <sup>b</sup> N	5.5				77	5	Cu.	E	
	4	- 25	- 3	E <sup>b</sup> S	6.7		-19.7	0.7	77	10	Cu.	E	
	6	- 26	- 2	E	4.9	61.0			79	10	Cust.	E	
	8	- 26	- 0	E <sup>b</sup> S	6.4	61.5	-18.4	0.9	86	10	Str.		
	10	- 26	131 59	E	5.3				83	10	Str.	E	
	Mn.	- 26	- 57	E	6.0	61.9	-17.9	0.9	84	10	Str.		*
April 19.	2	80 26	131 56	E	6.0				86	10	Str.		
	4	- 26	- 54	E	6.8	62.2	-16.8	1.0	86	10	Str.		
	6	- 27	- 53	E	8.4				85	10	Str.		
	8	- 27	- 51	E	7.5	61.3	-15.4	1.2	86	10	Str.		*
	10	- 27	- 50	E	5.3				85	10	Str.		
	Noon	- 27	- 48	SE	4.4	63.2	-13.5	1.2	82	10	Cu.	SE	
	2	- 27	- 47	SE	7.0				85	10	Cust.	SE	*
	4	- 27	- 45	SE	7.3	63.9	-14.1	1.3	87	10	Cust.	SE	*
	6	- 27	- 44	SE <sup>b</sup> E	6.1				86	10	Str.		*
	8	- 28	- 42	SE	4.4	65.2	-16.4	1.0	85	10	Cu.	S	
	10	- 28	- 41	SE	4.2				87	10	Str.	SE	
	Mn.	- 28	- 39	SE	2.6	61.1	-18.0	1.0	87	9°	Cist.	S	
April 20.	2	80 28	131 38	S <sup>b</sup> E	1.5				87	5	Ci.	S	*°
	4	- 28	- 36	S	1.4	65.7	-21.2	0.7	87	5	Cu.		
	6	- 28	- 35	SE <sup>b</sup> S	0.0				85				
	8	- 28	- 33	SE <sup>b</sup> S	0.0	66.8	-21.4	0.7	82	0			m
	10	- 28	- 33	SE <sup>b</sup> S	0.0				85	0			
	Noon	- 28	- 34	S <sup>b</sup> W	0.0	68.1	-20.2	0.7	74	0			
	2	- 28	- 35	S <sup>b</sup> W	0.0				73	0			
	4	- 28	- 35	S <sup>b</sup> W	2.1	68.9	-20.9	0.6	75	0			
	6	- 28	- 33	S <sup>b</sup> W	1.6				84	0			m° 2
	8	- 28	- 30	S <sup>b</sup> W	0.0	69.4	-22.0	0.7	85	10			m° 3
	10	- 28	- 28	SE	2.2				86	9°	Ci.	SW	4
	Mn.	- 28	- 26	SE	2.2	69.3	-23.3	0.6	86	7°	Ci.		
April 21.	2	80 28	131 24	SE <sup>b</sup> E	3.0				84	3	Cu.		
	4	- 28	- 22	SE <sup>b</sup> E	3.8	68.4	-22.1	0.6	86	7	Cu.		
	5	- 28	- 20	ESE	4.0				85	8°	Cu.		
	8	- 28	- 18	E	4.3	68.7	-21.1	0.7	86	4	Ci.		
	10	- 28	- 16	E	4.4				87	0			
	Noon	- 28	- 14	E	3.6	68.8	-19.0	0.7	78	8	Ci.	SW	5
	2	- 28	- 11	E	4.3				80	0			6
	4.45	- 28	- 9	E	3.3	69.5	-19.7	0.8	81	0			
	6	- 28	- 9	E	3.3				82	0			
	8	- 28	- 9	ENE	2.3	70.3	-22.6	0.6	82	0			
	10	- 28	- 9	E	3.1				80	0			
	Mn.	- 28	- 9	E	1.7	70.4	-24.9		79	0			
April 22.	2	80 28	131 9	E <sup>b</sup> N	2.4				79	0			
	4	- 28	- 10	E <sup>b</sup> N	2.4	70.8	-25.2	0.5	77	0			

<sup>1</sup> Drifting rapidly. <sup>2</sup> m over the ice. <sup>3</sup> ≡ over the ice. <sup>4</sup> Cirrus-belts converging towards SE<sup>b</sup>E. <sup>5</sup> Stripes SE-NW. <sup>6</sup> A screen set up for the sun on the south side of the thermometer-screen.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 22.	6	80° 28'	131° 10'	E <sup>b</sup> N	2·8				77	0			
	8	- 28	- 10	E <sup>b</sup> S	1·8	770·8	-24·0	0·5	77	0			
	10	- 29	- 10	ESE	2·4				78	0			
	Noon	- 29	- 11	E <sup>b</sup> S	2·7	70·8	-21·9	0·6	79	0			
	2	- 28	- 11	E <sup>b</sup> S	2·2				78	0			
	4	- 28	- 11	E <sup>b</sup> S	2·2	70·0	-20·5	0·7	78	0			
	6	- 28	- 11	E <sup>b</sup> S	2·0				77	0			
	8	- 28	- 12	ESE	2·1	70·5	-22·8	0·5	78	0			
	10	- 28	- 12	ESE	2·3				78	0			
	Mn.	- 28	- 12	SE	2·7	69·5	-23·9	0·5	85	0			
April 23.	2	80 28	131 12	SE <sup>b</sup> S	1·7				84	0			
	4	- 28	- 13	SE	2·1	68·6	-24·1	0·5	82	0	Cu.	SE	
	6	- 28	- 13	SE	1·9				82	3			
	8	- 28	- 13	SE <sup>b</sup> E	3·2	67·9	-22·9	0·6	85	0			
	10	- 28	- 13	SE	3·6				85	0			
	Noon	- 28	- 13	SE	3·8	67·2	-19·8	0·8	85	0			
	2	- 28	- 14	SE	4·0				84	0			
	4	- 28	- 14	SE	3·5	66·3	-18·2	0·9	83	0			
	6	- 28	- 15	SE	3·7				83	0			
	8	- 28	- 15	SE <sup>b</sup> S	3·8	66·0	-20·3	0·8	84	0			
	10	- 28	- 16	SE	3·4				81	0			
	Mn.	- 28	- 17	SE <sup>b</sup> S	3·4	64·9	-22·8	0·6	82	0			
April 24.	2	80 28	131 18	SE <sup>b</sup> S	3·6				80				
	4	- 28	- 19	SE <sup>b</sup> S	3·1	64·5	-22·7	0·5	79	0			
	6	- 29	- 19	SE	4·0		-21·6	0·6	79				
	8	- 29	- 20	SE <sup>b</sup> S	5·0	64·5	-20·2	0·7	79	0			
	10	- 29	- 21	SE <sup>b</sup> S	4·5				81	0			
	Noon	- 29	- 22	SE <sup>b</sup> S	4·8	64·6	-18·1	0·8	79	0			
	2	- 29	- 22	SSE	5·8				79	0			
	4	- 30	- 23	SSE	6·0	65·0	-18·9	0·8	79	0			
	6	- 30	- 24	SSE	5·7				79	0			
	8	- 30	- 25	SSE	4·2	65·5	-20·8	0·7	80	0			
	10	- 30	- 26	SSE	4·0				79	0			
	Mn.	- 31	- 26	SSE	4·6	66·0	-23·0	0·6	81	0			
April 25.	2	80 31	131 27	SE <sup>b</sup> S	4·6				85	0			
	4	- 31	- 28	SSE	3·8	66·3	-22·8	0·6	85	0			
	6	- 31	- 29	SSE	5·2				86	10			
	8	- 32	- 30	S <sup>b</sup> E	4·8	67·0	-17·7	1·0	88	10	Cust.	SE	m
	10	- 32	- 30	S <sup>b</sup> E	5·5				89	10			
	Noon	- 32	- 31	SSE	5·2	67·5	-15·7	1·1	86	10	Str.		
	2	- 32	- 32	SSE	4·8				81	10	Str.		
	4	- 33	- 33	S <sup>b</sup> E	5·1	67·9	-16·2	0·9	78	0	Cust.	S	* <sup>o</sup>
	6	- 33	- 34	S <sup>b</sup> E	2·5				77	0			
	8	- 33	- 34	SSE	2·6	68·6	-19·5	0·7	79	0			
	10	- 34	- 35	S <sup>b</sup> E	3·5				79	0			
	Mn.	- 34	- 36	S	2·8	69·3	-21·9	0·7	82	0			
April 26.	2	80 34	131 37	S	3·0				83	0			
	4	- 34	- 38	S	2·2	69·8	-23·0	0·6	83	0			
	6	- 35	- 38	S	2·4				80	0			
	8	- 35	- 39	S	3·5	70·2	-20·5	0·7	79	0			
	10	- 35	- 36	S	3·7				78	10	Str.		
	Noon	- 35	- 34	S <sup>b</sup> W	4·3	70·3	-17·9	0·8	78	10	Cu.	SW	
	2	- 35	- 32	S <sup>b</sup> W	3·8				77	0			

<sup>1</sup> Low ci. in SW and SE, bow underneath. <sup>2</sup> Screen set up for the sun on the north side of the thermometer-screen. Faint  $\odot$  with 2 mock-suns. <sup>3</sup> Faint mock-suns, and bow at vertex. The bow rather distinct.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 26.	4	80° 35'	131° 30'	S <sup>b</sup> W	4.3	770.6	-16.9	0.9	77	10	Ci.	SW	
	6	- 35	- 30	S <sup>b</sup> W	3.3				77	1	Cu.		
	8	- 35	- 31	S <sup>b</sup> W	3.5	70.2	-18.8	0.8	80	0			
	10	- 35	- 32	S <sup>b</sup> E	2.8				80	0			
	Mn.	- 35	- 33	S <sup>b</sup> E	3.0	70.5	-22.0	0.7	82	0			
April 27.	2	80 35	131 34	S <sup>b</sup> W	4.2				85			NW NW NW	m <sup>1</sup>
	4	- 35	- 35	S	4.8	70.5	-17.4	1.0	85	2	Cu.		
	6	- 35	- 36	S	4.4				84				
	8	- 35	- 37	SSE	5.6	69.1	-15.2	1.1	83	0			2
	10	- 36	- 39	S <sup>b</sup> E	7.3				80	0			
	Noon	- 36	- 40	S	8.0	67.9	-15.8	1.0	76	0			
	2	- 36	- 41	S	7.8				74	0			
	4	- 36	- 42	S	8.5	67.4	-14.7	1.1	74	10°	Ci.		m
	6	- 37	- 43	S	8.8				74	5	Ci.		
	8	- 37	- 44	S	8.3	67.0	-14.2	1.2	77	8°	Ci.		
	10	- 38	- 45	S	8.0				79	10°	Ci.		
	Mn.	- 38	- 46	S	7.2	67.7	-14.4	1.1	80	9°	Ci.		
April 28.	2	80 38	131 47	S	6.2				80	4°	Ci.	NW NW NW	
	4	- 39	- 48	S	6.5	67.7	-16.2	1.0	81	0			
	6	- 39	- 49	S	5.2				79	0			
	8	- 40	- 50	S	6.4	68.9	-15.1	1.1	79	10°	Ci.		
	10	- 40	- 51	S	5.9				78	6°	Ci.		
	Noon	- 40	- 52	S	5.5	70.0	-13.9	1.2	77	0			
	2	- 40	- 54	S <sup>b</sup> W	4.2				75	0			3
	4	- 40	- 55	S	4.0	70.5	-12.3	1.3	74	0			
	6	- 40	- 55	S	2.7				74	0			4
	8	- 41	- 54	SSE	3.5	71.3	-14.5	1.3	76	0			
	10	- 41	- 53	SSE	3.0				77	0			
	Mn.	- 41	- 52	S <sup>b</sup> E	4.8	71.8	-17.2	0.9	79	0			
April 29.	2	80 41	131 51	S	4.4				81	0		SE	
	4	- 42	- 50	S <sup>b</sup> W	5.0	72.3	-16.8	0.9	80	0			
	6	- 42	- 49	S	4.6				76	0			
	8	- 42	- 48	S	4.7	73.2	-14.3	1.1	73	0			
	10	- 42	- 47	S	4.9				74	0			
	Noon	- 43	- 46	S	3.0	74.3	-11.5	1.3	67	0			
	2	- 42	- 45	S	3.7				67	0			
	4	- 42	- 44	SE <sup>b</sup> E	3.4	74.6	-11.0	1.3	66	0			
	6	- 42	- 43	SE <sup>b</sup> S	3.4				68	0			
	8	- 42	- 42	SE <sup>b</sup> S	3.3	74.5	-14.2	1.0	71	0			
	10	- 42	- 41	SSE	3.6				72	0			
	Mn.	- 41	- 40	SSE	3.1	74.4	-17.8	0.8	74	0			
April 30.	2	80 42	131 39	SE <sup>b</sup> S	2.3				74	0		SE	
	4	- 43	- 38	SE <sup>b</sup> S	2.4	74.3	-19.0	0.7	74	0			
	6	- 44	- 37	SE	2.5				72				m
	8	- 45	- 36	E <sup>b</sup> S	2.8	73.9	-15.5	0.9	67	0			
	10	- 45	- 35	E <sup>b</sup> S	1.8				68	0			
	Noon	- 45	- 35	E <sup>b</sup> S	3.0	73.1	-13.0	1.0	62	0			
	2	- 45	- 34	E <sup>b</sup> N	2.2				62	0			
	4	- 45	- 33	E <sup>b</sup> N	3.5	72.1	-12.6	1.1	65	7°	Ci.		
	6	- 45	- 33	E <sup>b</sup> N	3.0				70	10°	Ci.		
	8	- 45	- 32	E <sup>b</sup> N	2.6	71.8	-15.0	0.9	70	1	Ci.		
	10	- 45	- 31	SE <sup>b</sup> E	2.5				72	9°	Ci.		
	Mn.	- 45	- 29	SE	3.0	71.2	-17.6	0.8	75	0			5

<sup>1</sup> Nimbus on the horiz. in the SE quadrant, circ. 3° or 4° high. <sup>2</sup> Some light ci. in SE and S. <sup>3</sup> Low ci. in W.<sup>4</sup> Low ci. horiz. W. <sup>5</sup> = bank from N to NE.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 1.	6.30	80° 46'	131° 25'	SE <sup>b</sup> S	2.8	771.6	-17.7	0.9	79	8°	Ci.	SE	
	8	- 46	- 24	ESE	2.5	71.4	-16.5	1.0	79	5°	Ci.		
	10	- 46	- 23	ESE	3.0				78	0°			
	Noon	- 46	- 22	ESE	2.7	71.2	-14.0	1.1	77	2°	Ci.		
	2	- 46	- 20	ESE	3.9				76	5°	Ci.		
	4	- 45	- 19	E <sup>b</sup> S	2.8	70.9	-13.1	1.2	74	0°			1
	6	- 45	- 18	ESE	3.2				75	0°			2
	8	- 45	- 17	E <sup>b</sup> S	3.0	71.4	-15.1	1.0	75	0°			
	10	- 44	- 15	ESE	3.5				74	0°			
	Mn.	- 44	- 14	ESE	3.0	71.7	-17.5	0.9	77	0°			
May 2.	2	80 45	131 13	SE <sup>b</sup> E	3.2				77	0°			
	4	- 45	- 11	ESE	1.8	72.1	-18.5	0.8	79	0°			
	6	- 46	- 10	SE <sup>b</sup> E	3.0				78	0°			
	8	- 46	- 9	ESE	3.5	72.8	-16.5	1.0	78	0°			
	10	- 47	- 8	ESE	3.9				80	0°			
	Noon	- 47	- 6	ESE	4.2	73.7	-13.5	1.2	80	0°			
	2	- 47	- 5	ESE	2.8				78	0°			
	4	- 47	- 4	E <sup>b</sup> S	4.5	74.0	-13.0	1.3	80	0°			
	6	- 47	- 2	E <sup>b</sup> S	3.5				76	0°			
	8	- 47	- 0	E <sup>b</sup> S	4.1	74.1	-14.7	1.1	74	0°			
	10	- 46	130 58	E <sup>b</sup> S	4.3				74				
	Mn.	- 46	- 56	E <sup>b</sup> S	3.8	74.0	-17.0	0.9	77	0°			
May 3.	2	80 46	130 54	E <sup>b</sup> S	3.5				78	3°	Cu.	E	
	4	- 47	- 52	E <sup>b</sup> S	4.1	74.4	-18.6	0.8	79	0°			
	6	- 47	- 50	ESE	5.3				79	0°			
	8	- 47	- 47	E <sup>b</sup> S	4.2	74.3	-17.8	0.9	78	0°			
	10	- 47	- 45	E <sup>b</sup> S	5.8				76	0°			
	Noon	- 48	- 43	E <sup>b</sup> S	4.0	74.1	-15.4	1.0	75	0°			
	2	- 48	- 41	E <sup>b</sup> S	5.5				74	0°			
	4	- 47	- 39	E <sup>b</sup> S	4.6	74.2	-13.5	1.2	74	0°			3
	6	- 47	- 37	E <sup>b</sup> S	4.4				73	0°			4
	8	- 47	- 35	ESE	4.3	74.4	-14.1	1.1	74	5°	Ci.		
	10	- 47	- 33	ESE	3.6				79	8°	Ci.	SE	5
	Mn.	- 47	- 31	ESE	4.8	74.3	-15.9	1.0	81	8°	Ci.	SE	
May 4.	2	80 48	130 29	ESE	3.2				81	5°	Ci.	SE	
	4	- 49	- 26	SE <sup>b</sup> E	2.6	75.4	-17.2	0.9	80	3°	Ci.	SE	
	6	- 50	- 24	SE <sup>b</sup> E	2.8					9°	Ci.	SE	
	8	- 51	- 22	SE <sup>b</sup> E	3.2	75.4	-15.8	1.0	78	9°	Ci.	SE	6
	10	- 51	- 30	SE <sup>b</sup> E	3.1				77	9°	Ci.		7
	Noon	- 51	- 39	SE <sup>b</sup> E	3.5	75.3	-12.5	1.3	77	6°	Ci.		
	2	- 51	- 48	SE <sup>b</sup> E	2.7				77	10°	Ci.		8
	4	- 51	- 56	SE <sup>b</sup> E	3.0	75.8	-12.2	1.4	76	10°	Ci.		9
	6	- 50	- 54	SE <sup>b</sup> E	3.2				76	10°	Ci.		10
	8	- 48	- 53	SE	2.8	76.0	-14.1	1.1	75	10°	Ci.		11
	10	- 47	- 51	SE	2.4				74	0°			
	Mn.	- 46	- 50	SE	2.8	76.3	-16.6	0.9	77	0°			
May 5.	2	80 47	130 48	SSE	2.6				76	0°			
	4	- 47	- 47	S <sup>b</sup> E	2.2	76.1	-17.6	0.9	76	0°			
	6	- 47	- 45	SSE	3.0				74	0°			
	8	- 48	- 43	SSE	1.8	77.0	-14.7	1.0	70	0°			12
	10	- 48	- 42	SSE	2.8				68	0°			
	Noon	- 48	- 40	SSE	2.2	77.3	-12.8	1.1	68	0°			
	2	- 49	- 39	SSE	2.2				67	0°			

<sup>1</sup> Some low ci.-banks in NNE. <sup>2</sup> Some ci. in N. <sup>3</sup> Some low ci.-banks in SW. <sup>4</sup> Low ci.-bows in SW.  
<sup>5</sup> Cirrus-belts converging towards N and S. <sup>6</sup> Uniformly overcast. <sup>7</sup> In stripes from SE to NW. <sup>8</sup> Cirrus  
belts over the whole sky, converging towards N and S. <sup>9</sup> As at 2 p. m. <sup>10</sup> As at 2 p. m., only fainter.  
<sup>11</sup> As at 2 p. m., only fainter. <sup>12</sup> Low ≡-banks in SE and NW.



1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 5.	2	80° 49'	130° 37'	SE <sup>b</sup> S	2.1	777.4	-11.7	1.3	74	0			
	4	- 49	- 36	SE <sup>b</sup> S	1.7				72	0			
	6	- 48	- 35	SE <sup>b</sup> S	2.6	78.1	-13.7	1.2	74	0			
	10	- 47	- 34		0				74	0			
	Mn.	- 46	- 34	SE <sup>b</sup> S	2.9	78.3	-16.2	0.9	74	0			
May 6.	2	80 47	130 33		0				73	0			
	4	- 47	- 33	SE <sup>b</sup> S	2.5	78.3	-16.3	0.9	73	0			
	6	- 48	- 32	E <sup>b</sup> S	1.5				71	0			
	8	- 48	- 31	SE <sup>b</sup> E	2.5	77.8	-15.5	1.0	73	7°	Ci.	S	
	10	- 49	- 31	SE <sup>b</sup> E	3.0				74	0			
	Noon	- 50	- 30	ESE	2.8	77.2	-12.2	1.2	70	0			1
	2	- 50	- 30	E <sup>b</sup> S	3.6				71	0			
	4	- 50	- 29	E <sup>b</sup> S	3.6	75.9	-11.6	1.3	72	8°	Ci.	SE	2
	6	- 50	- 28	E <sup>b</sup> S	4.5				72	1	Ci.	SE	
	8	- 50	- 28	E <sup>b</sup> S	4.1	74.4	-12.5	1.3	75	9	Cu.	SE	3
	10	- 50	- 27	E <sup>b</sup> S	4.4				75	9	Str.		
	Mn.	- 50	- 27	E <sup>b</sup> S	4.2	71.6	-12.2	1.4	76	9	Str.		
May 7.	2	80 51	130 26	E <sup>b</sup> S	4.8				74	9	Str.		
	4	- 51	- 25	E <sup>b</sup> S	6.6	67.4	- 9.7	1.7	77	10	Str.		
	6	- 51	- 25	E	9.0				70	10	Str.		
	8	- 51	- 24	ESE	6.1	63.8	-10.0	1.8	88	10	Str.		*
	10	- 51	- 24	ESE	7.7				84	10	Str.		
	Noon	- 51	- 23	SE <sup>b</sup> E	6.6	61.1	- 8.2	2.2	92	10	Str.		*°
	2	- 52	- 22	SE	5.7				92	10	Str.		
	4	- 52	- 22	SE <sup>b</sup> S	5.3	59.4	- 5.5	2.8	94	10	Str.		
	6	- 52	- 21	SE <sup>b</sup> E	5.2				94	10	Str.		*°
	8	- 52	- 21	SE <sup>b</sup> E	4.6	57.4	- 5.3	2.8	93	10	Str.		*°
	10	- 52	- 20	S <sup>b</sup> W	4.2				89	10	Str.		*°
	Mn.	- 52	- 19	S <sup>b</sup> W	3.5	56.9	- 9.5	1.9	89	10	Str.		*°
May 8.	2	80 53	130 19	S <sup>b</sup> W	2.2				87	5			
	4	- 53	- 18		0	57.4	-13.4	1.3	83	0			
	6	- 53	- 18	WSW	1.7				74	0			
	8	- 53	- 17	W <sup>b</sup> S	1.9	59.0	-10.2	1.5	74	0			
	10	- 53	- 17	W <sup>b</sup> S	2.3				72	0			
	Noon	- 53	- 16	WSW	3.8	61.4	- 9.3	1.6	75	9	Cu.	W	
	2	- 53	- 16	W <sup>b</sup> S	5.3		- 7.1	2.0	77	10	Cu.	W	
	4	- 53	- 15	W <sup>b</sup> N	5.0	62.9	- 7.6	1.9	78	10	Str.		
	6	- 54	- 15	W <sup>b</sup> S	4.2		- 7.3	2.0	79	10	Str.		
	8	- 54	- 14	SW <sup>b</sup> S	3.8	64.2	- 8.5	1.9	82	10	Str.		*°
	10	- 54	- 14	WSW	4.2				83	10	Str.		*°
	Mn.	- 54	- 14	SW <sup>b</sup> W	3.8	64.3	- 9.2	1.9	84	10	Str.		*°
May 9.	2	80 54	130 13	W <sup>b</sup> S	2.5				82		Str.		
	4	- 54	- 13	SW <sup>b</sup> W	0.0	64.3	-13.2	1.3	79	8	Cust.		*
	6	- 54	- 12	SW <sup>b</sup> W	1.9				73	10	Cu.		
	8	- 55	- 12	SW <sup>b</sup> W	1.5	64.5	- 8.6	1.6	67	10	Cu.		*°
	10	- 55	- 11		0		- 8.4	1.6	68	10	Cu.		*°
	Noon	- 55	- 11	SW <sup>b</sup> W	8.7	65.1	- 6.9	1.6	61	10	Str.		*°
	2	- 55	- 11	S <sup>b</sup> E	0.0		- 6.9	1.7	61	10	Cust.		*°
	4	- 55	- 10	Var.	0.0	65.3	- 6.9	1.8	66	10	Cust.		*°
	6	- 55	- 10	SE <sup>b</sup> S	1.4				67	10	Cust.		*°
	8	- 55	- 9		0	65.3	- 8.3	1.7	71	10	Cust.		*°
	10	- 55	- 9	E <sup>b</sup> N	0.0				83	10	Str.		*°
	Mn.	- 54	- 9	NE <sup>b</sup> E	2.0	65.3	-10.4	1.5	77	10	Cust.		*°

<sup>1</sup> Low ci. in S. <sup>2</sup> Very thin, light clouds, scarcely visible, with more distinct ones among them. Cirrus-belts converging towards NE-SW. <sup>3</sup> Ci. 1° in NW. Cu. not yet succeeded in covering this. <sup>4</sup> Light in S.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 10.	2	80° 54'	130° 8'	NE <sup>b</sup> E	2.0			1.6	60	10	Str.		*°
	6	- 54	- 8	NE <sup>b</sup> E	2.4				65	10	Str.		
	8	- 54	- 8	NE <sup>b</sup> E	2.7	765.2	-10.7	1.3	66	10	Cust.		*°
	10	- 54	- 7	NE <sup>b</sup> E	3.5		-10.9	1.3	70	10	Cust.		*°
	Noon	- 54	- 7	NE <sup>b</sup> E	4.5		-11.4	1.5	82	10	Cust.		*°
	2	- 54	- 6	NE	3.0				86	9°	Ci.	SE	
	4	- 53	- 6	NE	3.2	66.0	-14.6	1.2	87	7°	Ci.		
	6	- 53	- 6	NE	3.3		-15.3	1.2	85	3°	Ci.		
	8	- 52	- 5	NE <sup>b</sup> E	2.8	65.5	-16.6	1.1	84	0			
	10	- 51	- 5	NE <sup>b</sup> E	2.9				84	0			
	Mn.	- 51	- 5	NE	3.0	65.4	-19.5	0.8	84	0			
May 11.	2	80 51	130 4	NE <sup>b</sup> E	2.0				81	0			
	4	- 51	- 4	NE <sup>b</sup> N	2.8	65.3	-19.8	0.7	82	0			
	6	- 52	- 3	NNE	2.4				76	0			
	8	- 52	- 3	NNE	2.5	65.7	-20.5	0.7	81	0			
	10	- 52	- 3	NNE	2.4				81	0			
	Noon	- 52	- 4	NNE	2.6	65.5	-19.0	0.8	80	0			<sup>1</sup>
	2	- 52	- 4	NNE	2.4				84	0			<sup>2</sup>
	4	- 52	- 5	NE <sup>b</sup> E	1.5	65.4	-18.1	0.9	85	10°			m
	6	- 52	- 6	NNE	1.9				84	10			m
	8	- 52	- 7	SE <sup>b</sup> E	2.3	65.2	-19.2	0.8	85	10			m
	10	- 52	- 7	SE <sup>b</sup> E	1.6				85	10			m
	Mn.	- 52	- 7	SE <sup>b</sup> S	1.6	64.9	-20.4	0.8	86	10			m
May 12.	2	80 52	130 7		0				85	10			
	4	- 52	- 7	SE <sup>b</sup> S	1.6	64.3	-20.4	0.7	85	10			
	6	- 52	- 8	SE <sup>b</sup> S	3.5				87	10			
	8	- 52	- 8	SE <sup>b</sup> E	3.5	63.8	-19.6	0.8	85	10			
	10	- 52	- 8	SE <sup>b</sup> E	2.8				84	10	Cust.		
	Noon	- 52	- 8	ESE	3.9	63.5	-18.4	0.9	83	10	Cu.		m
	2	- 52	- 9	ESE	3.6				83	10°	Cicu.	E	
	4	- 52	- 9	ESE	5.2	63.7	-17.5	0.9	82	8	Cist.	E	
	6	- 52	- 8	E <sup>b</sup> S	5.0				82	10	Ci.	E	m
	8	- 52	- 4	E <sup>b</sup> N	5.1	64.5	-18.9	0.8	83	10°	Cicu.	E	<sup>6</sup>
	10	- 52	- 0	E <sup>b</sup> N	5.2				82	3	Cicu.	E	
	Mn.	- 52	129 56	E <sup>b</sup> N	6.1	65.2	-19.9	0.7	83	10°	Ci.	E	
May 13.	2	80 52	129 53	E <sup>b</sup> N	5.6				81	0			
	4	- 52	- 49	ENE	5.2	65.4	-20.2	0.7	79	0			
	6	- 52	- 45	E <sup>b</sup> N	5.5					0			
	8	- 52	- 42	ENE	5.9	65.4	-18.7	0.8	81	0			
	10	- 52	- 38	ENE	8.2				74	0			
	Noon	- 52	- 34	NE <sup>b</sup> E	7.5	66.4	-17.6	0.8	74	0			
	2	- 52	- 31	NE <sup>b</sup> E	6.3				77	1	Cu.		<sup>7</sup>
	4	- 52	- 28	NE <sup>b</sup> E	5.6	66.2	-15.3	1.0	76	1	Cu.		
	6	- 52	- 24	NE <sup>b</sup> E	4.8				78	0			
	8	- 52	- 21	NE <sup>b</sup> E	6.4	66.7	-16.8	0.9	81	0			
	10	- 51	- 18	NE	5.8				78	0			
	Mn.	- 51	- 15	NE	5.7	67.2	-18.2	0.8	77	0			
May 14.	2	80 51	129 12	ENE	5.8				79	0			
	4	- 52	- 9	ENE	6.4	65.8	-18.3	0.8	76	0			
	6	- 52	- 5	ENE	6.6				76	0			
	8	- 53	- 2	NE <sup>b</sup> E	9.0	65.2	-15.2	1.0	76	0			
	10	- 53	128 59	NE <sup>b</sup> E	10.0				81	0			
	Noon	- 53	- 56	NE <sup>b</sup> E	10.0	64.7	-14.3	1.2	80	0			
	2	- 54	- 53	NE <sup>b</sup> E	10.8				79	4	Cu.	NE	
	4	- 54	- 50	ENE	10.3	64.4	-14.0	1.2	79	5°	Cu.	ENE	

<sup>1</sup> m. horiz. <sup>2</sup> m. horiz. <sup>3</sup> ≡ over the ice. <sup>4</sup> ≡ over the ice. <sup>5</sup> Much — <sup>6</sup> A dense ≡ bank in SE, with zenith blue. <sup>7</sup> 3 p. m. Cu. NE. Amount 4.



1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 19.	2	81° 7'	126° 29'	S <sup>b</sup> W	7.5				81	10	Cust.		*
	4	- 7	- 29	SE <sup>b</sup> S	5.0	764.6	-9.2	1.7	79	8	Cu.		
	6	- 8	- 28	SE <sup>b</sup> S	5.4				81	10	Cu.		
	8	- 8	- 27	SE <sup>b</sup> S	7.4	64.8	-7.8	1.9	77	10	Cust.	S	
	10	- 8	- 27	SE <sup>b</sup> S	6.3		-7.5	2.0	77	10	Cu.	S	
	Noon	- 9	- 26	SE <sup>b</sup> S	7.2	64.7	-7.1	2.0	76	10	Cust.	S	
	2	- 9	- 26	SE <sup>b</sup> S	6.9		-6.4	2.1	76	10	Str.		
	4	- 9	- 25	SSE	6.2	65.0	-6.9	2.0	75	10	Str.		
	6	- 10	- 24	SSE	6.1				82	10	Cust.		
	8	- 10	- 24	SSE	5.1	65.6	-7.8	2.1	84	10	Cust.		
	10	- 10	- 23	SE <sup>b</sup> S	5.5				89	10	Snow.sk.		
	Mn.	- 11	- 23	SE <sup>b</sup> S	4.5	64.8	-7.2	2.3	90	10	Snow.sk.		
May 20.	2	81 11	126 22	SSE	3.5				90	10	Str.		*°
	4	- 11	- 21	SE <sup>b</sup> S	4.2	64.8	-6.2	2.5	88	10	Str.		
	6	- 12	- 21	S <sup>b</sup> E	7.5					10	Cust.		
	8	- 12	- 20	SSE	8.2	64.9	-8.7	1.9	82	10	Snow.sk.		
	10	- 12	- 20	SSE	7.6		-8.1	2.0	81	10	Cust.	SSE	
	Noon	- 13	- 19	SE <sup>b</sup> S	7.3	65.7	-8.7	1.8	80	0			
	12.45	- 13	- 19				-8.1	1.9	77				
	2	- 13	- 18	SE <sup>b</sup> S	7.3		-6.3	2.3	81	7°	Cicu.	SE	
	4	- 13	- 18	SE <sup>b</sup> S	8.4	64.5	-4.3	2.7	83	10	Cust.	SE	
	6	- 14	- 17	SE <sup>b</sup> S	8.2		-3.9	3.0	90	10	Cust.		
	8	- 14	- 17	SE <sup>b</sup> S	6.7	65.1	-4.7	2.9	90	10	Cust.	SE	
	10	- 14	- 16	SE	7.7				94	10	Cust.		
	Mn.	- 15	- 15	SE	6.4	66.3	-5.9	2.5	88	3	Cu.		
May 21.	2	81 16	126 15	SE	4.8				83	0			
	4	- 18	- 14	SE <sup>b</sup> E	6.3	66.3	-7.3	2.2	88	0			
	6	- 19	- 14	SE <sup>b</sup> E	5.2				74	0			
	8	- 21	- 13	SE <sup>b</sup> E	6.2	67.2	-7.2	1.8	69	0			
	10	- 21	- 2	E <sup>b</sup> S	6.5		-7.5	1.9	76	0			
	Noon	- 21	125 49	E <sup>b</sup> S	6.6	67.8	-7.4	2.1	84	9°	Cicu.	SSE	
	2	- 21	- 37	E <sup>b</sup> S	6.8		-6.8	2.2	82	9°	Cicu.	SE	
	4	- 21	- 25	E <sup>b</sup> S	6.0	68.1	-6.1	2.3	82	0			
	6	- 21	- 18	E <sup>b</sup> S	6.9				78	0			
	8	- 21	- 11	E	6.6	68.4	-7.2	2.1	82	3°	Ci.	ESE	
	10	- 22	- 5	E	5.2				82	8	Cu.	E	
	Mn.	- 22	124 58	E <sup>b</sup> S	6.2	67.9	-6.4	2.3	85		Str.		
May 22.	2	81 22	124 51	E <sup>b</sup> S	5.0				85	10	Str.		
	4	- 23	- 44	E <sup>b</sup> S	6.5	67.5	-6.7	2.4	88	10	Str.		
	6	- 23	- 37	E <sup>b</sup> S	6.3				84	10	Str.		
	8	- 23	- 31	E <sup>b</sup> S	7.0	67.3	-6.1	2.3	83	7	Cicu.	E	
	10	- 24	- 24	E <sup>b</sup> S	7.0		-6.1	2.3	81	10	Cu.	E	
	Noon	- 24	- 17	E <sup>b</sup> S	8.0	66.5	-5.4	2.4	79	10	Cu.	SE	
	2	- 24	- 10	E	6.8		-6.5	2.1	75	10	Cu.	ESE	
	4	- 24	- 3	E <sup>b</sup> N	5.8	65.4	-7.5	2.0	80	10	Cu.	E	
	6	- 25	123 57	E <sup>b</sup> S	6.1		-8.4	1.9	81	10	Str.		
	8	- 25	- 50	E <sup>b</sup> S	5.1	65.5	-8.5	1.7	74	10	Str.		
	10	- 25	- 43	E	5.5				86	10	Str.		
	Mn.	- 25	- 36	E <sup>b</sup> S	6.1	65.1	-8.0	2.1	86	10	Str.		
May 23.	2	81 26	123 29	E <sup>b</sup> S	5.8				87	10	Str.		*°
	4	- 26	- 23	E <sup>b</sup> S	5.2	64.9	-7.6	2.2	87	10	Str.		
	6	- 26	- 16	E <sup>b</sup> S	5.8		-6.3	2.4	87	10	Str.		
	8	- 26	- 9	E <sup>b</sup> S	5.5	64.8	-6.3	2.6	85	10	Str.		
	10	- 27	- 2	E <sup>b</sup> S	6.5		-5.7	2.2	76	10	Str.		
	Noon	- 27	122 56	E <sup>b</sup> S	6.5	64.8	-5.2	2.4	78	10	Cu.	E	

<sup>1</sup> Thick banks on the horiz. <sup>2</sup> From N to E stationary cu. above the horiz. <sup>3</sup> From ESE through S to W dense banks of str. with blue sky in SW. Ci. only over the SW sky.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 23.	2	81° 27'	122° 57'	E <sup>b</sup> S	6.3		-5.3	2.4	81	10	Str.		*° *° *°
	4	- 28	- 57	E <sup>b</sup> S	5.9	764.4	-4.5	2.8	89	10	Str.		
	6	- 28	- 58	E <sup>b</sup> S	6.8		-4.2	2.9	86	10	Str.		
	8	- 29	- 58	E <sup>b</sup> S	7.5	64.3	-4.1	2.9	87	10	Str.		
	10	- 29	- 59	SE <sup>b</sup> E	5.2				93	10	Str.		
	Mn.	- 30	- 59	ESE	5.6	64.5	-4.1	3.1	93	10	Str.		
May 24.	2	81 30	123 0	ESE	5.0				93	10	Str.		1 2 * * *
	4	- 30	- 0	SE <sup>b</sup> E	5.6	65.0	-4.2	3.0	90	10	Str.		
	6	- 31	- 1	ESE	4.8				88	10	Str.		
	8	- 31	- 2	ESE	5.7	65.2	-4.4	3.0	90	10°	Ci.		
	10	- 32	- 2	ESE	6.8		-2.8	3.3	89	10	Str.		
	Noon	- 32	- 3	ESE	7.0	65.8	-2.5	3.5	91	10	Str.		
	2	- 33	- 3	E	5.0		0.7	4.4	90	10	Cist.		
	4	- 33	- 2	E	6.5	66.0	-0.7	4.1	94	10	Cust.	E	
	6	- 33	- 2	E	4.8		-0.6	3.9	89	10	Cust.	E	
	8	- 33	- 2	E	6.0	66.2	-0.6	4.1	94	10	Cust.	E	
	10	- 32	- 3	E	4.5		-1.4	3.9	94	10	Cust.	E	
	Mn.	- 32	- 3	E	6.2	66.0	-1.2	3.8	91	10	Str.		
May 25.	2	81 32	123 4	E	8.0				89	10	Str.		3 4 5
	4	- 32	- 4	E <sup>b</sup> S	6.8	66.0	-3.8	3.0	87	10	Cust.		
	6	- 32	- 5	E <sup>b</sup> S	9.2				90	10	Str.		
	8	- 32	- 5	E	7.9	65.5	-4.3	2.6	80	10	Str.		
	9	- 32	- 5				-4.9						
	10	- 32	- 6	E <sup>b</sup> S	6.9		-4.8	2.6	85	10	Cist.		
	Noon	- 32	- 6	E	6.0	65.5	-5.1	2.6	86	10	Str.		
	2	- 31	- 6	E <sup>b</sup> S	6.5		-5.0	2.7	87	10	Cist.	E	
	4	- 31	- 7	E <sup>b</sup> S	6.0	65.7	-4.1	2.8	86	10	Cist.		
	6	- 31	- 7	E	5.9		-4.0	2.9	88	10	Str.		
	8	- 31	- 8	E <sup>b</sup> N	5.9	66.1	-4.3	3.1	95	10	Str.		
	10	- 31	- 8	E <sup>b</sup> N	5.2				92	10	Str.		
	Mn.	- 31	- 9	E	6.6	66.8	-5.1	2.9	93	10	Str.		
May 26.	2	81 31	123 9	E <sup>b</sup> N	5.8				93	10	Str.		3 4 5
	4	- 31	- 10	E <sup>b</sup> N	6.8	65.8	-4.8	2.8	88	10	Ci.		
	6	- 31	- 9	E <sup>b</sup> N	4.8				81	0			
	8	- 31	- 6	ENE	5.5	65.5	-6.1	2.3	81	5°	Ci.	E	
	10	- 31	- 3	NE <sup>b</sup> E	4.5		-5.5	2.4	79	0			
	Noon	- 31	- 1	NE <sup>b</sup> E	5.7	64.8	-4.8	2.4	77	0			
	2	- 31	- 1	NE <sup>b</sup> E	5.6		-3.9	2.7	80	0			
	4	- 31	- 0	NE <sup>b</sup> E	5.3	63.9	-4.2	2.7	80	0			
	6.30	- 31	122 59	E <sup>b</sup> N	3.7		-4.5	2.6	81	10	Cist.		
	8	- 31	- 58	E	4.6	63.7	-4.8	2.6	82	10	Str.		
	10	- 31	- 56	SE <sup>b</sup> E	5.4				87	10	Str.		
	Mn.	- 31	- 55	SE <sup>b</sup> S	4.6	64.3	-6.6	2.5	89	10	Str.		
May 27.	2	81 31	122 54	ESE	5.2				88	10	Str.		5 ● ● ● ● ● ● ● ● ●
	4	- 31	- 52	SE <sup>b</sup> E	3.4	64.3	-5.1	2.6	86	10	Str.		
	6	- 32	- 51	SE <sup>b</sup> E	3.5				85	10	Str.		
	8	- 32	- 49	E <sup>b</sup> S	4.5	64.4	-5.1	2.4	77	10	Cu.	SE	
	10	- 32	- 48	E	3.7		-4.4	2.7	81	10	Cu.	E	
	Noon	- 32	- 47	E <sup>b</sup> S	3.0	64.6	-4.0	2.9	84		Cicu.		
	2	- 32	- 45	E <sup>b</sup> S	3.8		-4.5	3.0	89	10	Cicu.		
	4	- 32	- 44	E <sup>b</sup> N	4.7	64.4	-3.7	2.9	85	5	Cicu.		
	6	- 33	- 43	E <sup>b</sup> S	2.1		-3.9	2.8	81	3	Cicu.		
	8	- 33	- 41	E <sup>b</sup> S	1.8	64.3	-4.0	2.9	85	10	Ci.		

<sup>1</sup> Low ci. from ESE, high ci. from SE. Only seen at intervals. Direction uncertain, but the drift circ. SE.

<sup>2</sup> Thin clouds almost like fog; designate this as cist. <sup>3</sup> Some light ci. <sup>4</sup> The sky, which had been quite blue, was overcast in the course of 5 min. <sup>5</sup> 10 min. after the observation, the wind changed to ESE, and the sky altogether cleared.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 27.	10 Mn.	81° 33' - 33	122° 40' - 38	NE <sup>b</sup> E	0 3.0	763.9	-4.0	2.9	81 87	10 10	Cicu. Cicu.		
May 28.	2 4 6 8 10 Noon 2 4 6 8 10 Mn.	81 34 - 34 - 34 - 34 - 34 - 35 - 34 - 34 - 35 - 35 - 34 - 34	122 37 - 36 - 34 - 33 - 32 - 30 - 29 - 29 - 28 - 28 - 27 - 27	NE <sup>b</sup> E NE <sup>b</sup> E ENE E <sup>b</sup> S NE <sup>b</sup> E NE <sup>b</sup> E NE <sup>b</sup> E NE <sup>b</sup> E NE <sup>b</sup> E E <sup>b</sup> N NE <sup>b</sup> E E <sup>b</sup> N	3.4 2.7 3.6 3.4 2.0 4.4 1.7 3.7 3.0 3.0 3.5 3.5	63.1 62.6 62.1 61.4 60.6 59.5	-3.3 -3.1 -2.1 -3.0 -3.4 -3.3 -4.5 -5.5	3.2 3.0 3.4 3.0 3.1 3.0 2.8	89 89 85 83 87 83 88 86 92 87 92 89	10 10° 10° 10 10 10 9 10 10° 10° 10	Cicu. Ci. Cist. Cist. Str. Cist. Cicu. Cicu. Ci. Cu. Cist. Ci.	E  E E NE NE NE E E	≡
May 29.	2 4 6 8 10 Noon 2 4 6 8 10 Mn.	81 34 - 34 - 34 - 34 - 34 - 34 - 34 - 34 - 34 - 33 - 33	122 27 - 26 - 26 - 26 - 26 - 25 - 25 - 25 - 24 - 24 - 24 - 23	NE <sup>b</sup> E NE NE <sup>b</sup> E NNE NE <sup>b</sup> E NE <sup>b</sup> E E <sup>b</sup> N NE NE NE NE <sup>b</sup> E NE <sup>b</sup> E	3.5 3.0 3.6 5.0 5.8 5.0 5.7 4.5 4.6 7.0 7.2 6.5	58.8 57.9 56.5 56.3 55.8 55.3	-5.9 -5.0 -4.6 -4.0 -3.0 -3.4 -3.9 -6.0	2.7 3.0 2.8 2.5 3.2 3.1 2.9 2.6	85 92 95 97 87 76 87 87 96 88 88 90	10 10 10 10 10 10° 10 10 10 10 10	Cist. Cist. Str. Str. Cist. Cicu.	E  NE	*  ◎ *
May 30.	2 4 6 8 10 Noon 2 4 6 8 10 Mn.	81 33 - 33 - 33 - 33 - 33 - 33 - 33 - 33 - 33 - 33 - 32	122 23 - 23 - 23 - 22 - 22 - 22 - 21 - 21 - 21 - 21 - 20 - 20	NE <sup>b</sup> E NE <sup>b</sup> E NE <sup>b</sup> E NE <sup>b</sup> E NE <sup>b</sup> E NE <sup>b</sup> N NE <sup>b</sup> N NE <sup>b</sup> N NE <sup>b</sup> N NE <sup>b</sup> N NE <sup>b</sup> N NE <sup>b</sup> N	7.2 9.2 7.0 6.5 4.2 6.0 6.3 5.0 4.0 3.8 3.7 4.5	54.5 54.1 53.4 53.3 53.4 53.5	-5.9 -5.8 -5.0 -4.5 -4.2 -3.9 -4.0 -4.7 -3.9	2.6 2.7 2.8 2.7 2.8 2.7 3.1	91 90 86 91 88 88 84 83 84 86 92 93	10 10 10 10 10 10 10 10 10 10 10	Cicu. Str. Cist. Str. Str. Str. Str. Str. Str. Str. Str. Str.	*	
May 31.	2 4 6 8 10 Noon 2 4 6 8 10 Mn.	81 32 - 32 - 32 - 32 - 32 - 32 - 32 - 32 - 32 - 32 - 31	122 20 - 19 - 19 - 19 - 18 - 18 - 18 - 18 - 17 - 17 - 17 - 16	NE <sup>b</sup> N NE <sup>b</sup> N NE <sup>b</sup> N NE <sup>b</sup> N NE <sup>b</sup> N N N <sup>b</sup> W N <sup>b</sup> E N <sup>b</sup> E NNW	4.2 4.0 2.8 3.4 3.4 0 3.2 3.8 3.0 3.5 3.2	53.7 54.2 55.2 56.1 56.9 58.0	-3.1 -2.4 -2.5 -1.4 -1.9 -2.3 -2.6 -3.3 -3.3	3.2 3.3 3.2 3.1 3.1 3.3 3.3 2.9 3.0	93 89 87 86 84 74 78 86 85 80 82	10 10 10 10 10 10 10 10 10 10	Str. Str. Str. Str. Str. Str. Str. Str. Str. Str. Str.	*	
June 1.	2 4 6 8 10 Noon 2 4	81 31 - 31 - 31 - 31 - 31 - 31 - 31 - 31	122 16 - 16 - 15 - 15 - 15 - 15 - 14 - 14	NW <sup>b</sup> N N <sup>b</sup> W N <sup>b</sup> W N <sup>b</sup> W N N N N	2.6 4.0 3.6 4.0 3.8 3.0 3.5 4.0	58.3 59.3 60.4 61.4	-4.5 -5.1 -3.6 -2.9	2.8 3.1 2.8 3.0 3.0	76 88 79 100 81 78 82 83	10 10 10 10 10 10 10 10	Str. Str. Str. Str. Str. Str. Cu. Cu.	N N	≡

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 1.	6	81° 31'	122° 13'	N	3.0		- 2.6	3.3	89	10	Cust.	N	☼
	8	- 31	- 13	N	4.1	762.8	- 4.1	3.1	94	10	Str.		* ☼
	10	- 31	- 12	N <sup>b</sup> E	3.4				96	10	Str.		☼
	Mn.	- 31	- 12	N	3.3	63.4	- 6.3	2.5	91		Ci.		☼
June 2.	2	81 31	122 12	N <sup>b</sup> W	3.5				93	0			☼ <sup>1</sup>
	4	- 31	- 12	N <sup>b</sup> W	3.8	62.9	- 6.3	2.6	94	10	Str.		☼ <sup>2</sup>
	6	- 31	- 12	N <sup>b</sup> W	3.8				92	10	Str.		☼
	8	- 31	- 12	N <sup>b</sup> W	3.5	63.4	- 7.3	2.3	90	10	Str.		☼
	10	- 31	- 12	N <sup>b</sup> W	2.5		- 7.7	2.0	82	10	Str.		☼
	Noon	- 31	- 12	N <sup>b</sup> W	3.3	63.4	- 7.6	1.9	79	10	Str.		☼
	2	- 31	- 12	N <sup>b</sup> W	1.8		- 6.5	2.0	73	10	Str.		☼
	4	- 31	- 11	NW <sup>b</sup> W	2.0	62.8	- 7.7	2.0	80	10	Str.		☼
	6	- 30	- 11	N	2.4		- 7.5	2.0	80	10	Str.		☼
	8	- 30	- 11	W <sup>b</sup> N	1.8	62.6	- 7.4	1.9	75	10	Str.		☼
	10	- 30	- 11	W	2.6				80	10	Str.		☼
	Mn.	- 30	- 11	W <sup>b</sup> N	3.4	62.1	- 8.6	2.0	85	10	Str.		☼
June 3.	2	81 30	122 11	W <sup>b</sup> N	2.2				90	10	Str.		
	4	- 30	- 11	W	4.8	62.1	- 9.4	2.0	91	10	Str.		
	6	- 30	- 11	NW <sup>b</sup> N	2.7				89	10	Str.		
	8	- 30	- 11	W	3.4	60.4	- 8.1	2.1	87	10	Str.		
	10	- 30	- 11	SW <sup>b</sup> W	3.4				86	10 <sup>o</sup>	Str.		
	Noon	- 30	- 11	W <sup>b</sup> S	3.4	59.9	- 7.1	2.0	78	10 <sup>o</sup>	Cist.		
	2	- 30	- 11	W	3.4		- 6.4	2.1	75	1	Cist.	W	
	2.30	- 30	- 11							3	Ci.	SW	
	4	- 30	- 11	W <sup>b</sup> N	2.4	59.0	- 6.7	2.0	73	10	Cicu.	W	
	6	- 30	- 10	WNW	2.7		- 5.3	2.3	76	10	Cicu.	NW	
	8	- 31	- 10	NW <sup>b</sup> W	2.9	58.9	- 4.6	2.7	83	10	Str.		
	10	- 31	- 10	N	4.3				95	10	Str.		
	Mn.	- 31	- 10	NE <sup>b</sup> N	5.4	59.7	- 6.3	2.5	89	10	Str.		
June 4.	2	81 31	122 10	NNE	4.8		- 8.3	2.1	89	10	Str.		
	4	- 31	- 10	NNE	5.0	58.8	- 7.3	2.3	89	10	Str.		
	6	- 31	- 10	NE <sup>b</sup> N	5.8				90		Str.		
	8	- 31	- 10	NE <sup>b</sup> N	4.9	58.4	- 8.3	2.3	96	3 <sup>o</sup>	Cicu.	NE	
	9	- 31	- 10						90	8 <sup>o</sup>	Cicu.	NE	
	10	- 31	- 10	NNE	5.4		- 8.0	2.1	85	3 <sup>o</sup>	Cicu.	NNE	
	Noon	- 31	- 9	NNE	5.1	58.4	- 7.5	2.2	87	3 <sup>o</sup>	Cicu.	NNE	
	2	- 31	- 8	NE <sup>b</sup> N	6.0		- 7.5	2.2	86	10	Cist.	NE	
	4	- 30	- 8	NE <sup>b</sup> N	5.7	58.2	- 7.7	2.1	84	10	Cist.		
	6	- 30	- 7	NE	6.0		- 8.0	2.1	85	10	Str.		
	8	- 29	- 6	NE <sup>b</sup> N	5.4	59.0	- 8.8	1.9	85	10	Cust.	NE	
	10	- 29	- 6	NE <sup>b</sup> N	5.7				88	7	Cu.	NE	
	Mn.	- 28	- 5	NNE	3.7	58.9	- 10.2	1.8	91	10 <sup>o</sup>	Cist.		
June 5.	2	81 29	122 4	NNE	3.3					10	Cist.		
	4	- 29	- 4	N	4.4	59.7	- 8.6	2.1	90	8 <sup>o</sup>	Cist.	NE	
	6	- 29	- 4	N <sup>b</sup> W	4.6				91	8	Cist.	NE	
	8.10	- 29	- 3	N <sup>b</sup> W	4.0	60.6	- 5.9	2.3	95	10 <sup>o</sup>	Cicu.	NE	
	10	- 29	- 3	N	2.7		- 6.0	2.2	77	8	Cicu.	N	
	Noon	- 29	- 2	NW <sup>b</sup> N	4.4	61.5	- 6.1	2.2	78	10	Str.		
	2	- 29	- 2	NW <sup>b</sup> W	2.5		- 5.8	2.4	82	10	Str.		
	4	- 29	121 55	WNW	2.6	62.6	- 6.0	2.3	82	5	Cicu.	NW	
	6	- 29	- 45	W <sup>b</sup> N	2.8		- 5.1	2.2	70	0			
	8	- 29	122 12	W <sup>b</sup> N	2.3	63.7	- 5.3	2.7	89	0			
	10	- 29	- 12	W <sup>b</sup> N	3.3				83	4 <sup>o</sup>	Cicu.		
	Mn.	- 29	- 11		0	64.6	- 8.1	2.1	86	10			☼

<sup>1</sup> Light fog over the ice. <sup>2</sup> Light fog. <sup>3</sup> — opposite the sun. The veil of clouds varying greatly, as low cist. are passing. High rows of ci. in SE-NW. Cirrus-belts converging towards SW and NE. <sup>4</sup> Unsteady wind. <sup>5</sup> 9.30 p. m. some fog drifting from SE over the ship. Cist. 10.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 6.	2	81° 29'	122° 11'		1.2				84	8			≡
	4	- 29	- 11	W	1.4	764.9	-7.8	2.3	92				
	6	- 29	- 11	W	1.6				89	0			
	8	- 29	- 10	W	3.0	65.3	-7.2	2.2	88	0			
	10	- 29	- 10	W <sup>b</sup> S	2.4		-5.7	2.4	79	0			
	Noon	- 29	- 10	W <sup>b</sup> S	2.5	65.9	-4.8	2.6	81	10°	Cist.		m
	2	- 29	- 10	W <sup>b</sup> N	3.0		-4.8	2.7	85	10°	Cist.		
	4	- 29	- 10	W <sup>b</sup> N	2.2	65.8	-3.0	3.0	83	9	Cicu.		
	6	- 29	- 10	W <sup>b</sup> N	1.8		-3.3	3.0	84	10	Str.		≡
	8	- 29	- 10	WNW	1.9	66.2	-3.0	3.0	84	9	Ci. Cust.	WNW	≡
	10	- 28	- 10	WNW	2.5				81	10°			m <sup>1</sup>
	Mn.	- 28	- 10	W <sup>b</sup> N	0.0	66.3	-4.0	2.6	77	3	Ci.		2
June 7.	2	81 28	122 10	W <sup>b</sup> N	1.5				80	2	Ci.		
	4	- 28	- 10	W <sup>b</sup> N	1.7	66.4	-4.5	2.6	80	0			
	6	- 28	- 10		0				76	0			
	8	- 28	- 10	NW <sup>b</sup> N	1.4	66.3	-3.6	2.9	83	0			
	10	- 28	- 10	W <sup>b</sup> N	1.6		-3.2	2.8	78	0			
	Noon	- 28	- 10	N <sup>b</sup> E	1.9	66.2	-3.3	2.9	81	3°	Ci.	SW	
	2	- 28	- 10	NNE	2.6		-2.8	2.9	80	0			
	4	- 28	- 10	E	2.4	66.0	-2.9	2.8	77	5	Cicu.	E	
	6	- 28	- 10	E	2.3		-4.3	2.6	78	5	Cicu.	E	
	8	- 28	- 10	E <sup>b</sup> S	1.7	66.0	-4.2	2.7	81	1°	Cicu.		3
	10	- 28	- 10	E	2.3				83	5	Cicu.	NW	
	Mn.	- 28	- 9	SE <sup>b</sup> E	2.4	65.5	-4.6	2.7	84	8	Cicu.	NW	
June 8.	2	81 28	122 9	SE <sup>b</sup> E	3.0				85	8	Cicu.	NW	
	4	- 28	- 9	SE <sup>b</sup> S	3.4	65.2	-4.2	2.9	86	8	Cicu.		
	6	- 28	- 8	S <sup>b</sup> W	1.2	65.0	-3.3	2.9	81	9	Cu.	N	
	8	- 28	- 8	SW <sup>b</sup> S	2.3	64.6	-2.1	2.9	73	10	Cu.	NE	
	10	- 28	- 8	SSE	2.5		-0.4	3.5	78	10	Cu.	NE	
	Noon	- 28	- 7	SW <sup>b</sup> S	1.9	64.1	-0.1	3.6	79	8	Cicu.	NE	
	12.45	- 28	- 7				0.3						
	2	- 28	- 7	SW <sup>b</sup> S	1.8		-0.2	3.4	76	0			
	4.15	- 28	- 6	SE <sup>b</sup> E	2.8	64.0	0.2	3.2	69	0			
	6	- 28	- 5	SE <sup>b</sup> S	2.2		0.4	3.4	71	0			
	8	- 28	- 5	SE	1.7	63.6	-2.5	2.8	72	5°	Ci.	SE	
	10	- 29	- 5	SE	1.3				71	10°	Ci.		4
	Mn.	- 29	- 5	SSE	2.2	62.8	-4.0	2.9	84	9	Cicu.	SSE	
June 9.	2	81 29	122 6	SE <sup>b</sup> S	2.3				84	10	Cicu.	SW	
	4	- 30	- 6	SSE	3.2	61.4	-4.7	2.8	88	10°	Cist.	SW	
	6	- 30	- 6	S	2.9				86	10	Str.		
	8	- 30	- 6	S <sup>b</sup> E	3.6	60.9	-3.0	3.0	83	10	Str.		
	10	- 31	- 6	SW <sup>b</sup> S	3.6		-1.5	3.2	78	10	Str.		
	Noon	- 31	- 6	S <sup>b</sup> W	3.7	60.1	-1.8	3.2	80	10	Str.		
	2	- 31	- 6	S <sup>b</sup> W	4.8		-2.9	2.9	78	10	Str.		
	4.20	- 32	- 6	S	3.8	59.6	-2.1	3.3	84	10	Str.		5
	6	- 32	- 7	S <sup>b</sup> E	3.6		-2.2	3.2	84	10	Str.		
	8	- 32	- 7	SE	5.6	58.8	-3.3	3.1	88	7°	Cicu. Str.	SE	
	10	- 33	- 7	SE	4.1				90	10	Cu.	SSW	
	Mn.	- 33	- 7	SE	4.8	57.4	-3.5	3.4	97	10	Str.		
June 10.	2	81 33	122 7	SE	5.4				92	10	Str.		
	4	- 34	- 7	SE	5.8	56.1	-2.5	3.6	92	10	Str.	SE	
	6	- 34	- 7	SE <sup>b</sup> S	5.5				94	10	Str.		
	8	- 34	- 7	SE <sup>b</sup> S	7.1	54.8	-0.6	4.1	92	10	Str.		△°
	10	- 35	- 8	SSE	6.5		-0.3	4.1	92	10	Str.		≡
	Noon	- 35	- 8	S <sup>b</sup> E	6.5	54.9	1.4	4.6	92	10	Str.		⊙

<sup>1</sup> ( on the southern sky. <sup>2</sup> ^ on the southern sky. <sup>3</sup> 8.20 p.m. A patch of fog drifting from W.<sup>4</sup> Cirrus-belts converging towards SE and NW. Drift uncertain. <sup>5</sup> Thin glazed frost.



1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 10.	2	81° 35'	122° 8'	S	6.2		1.3	4.5	89	10	Cust.	S	
	4	- 36	- 8	S	6.2	756.2	1.3	4.4	87	9°	Cicu.	S	
	6	- 36	- 8	S <sup>b</sup> W	3.8		0.9	4.3	88	8°	Ci. Cicu.	S	1
	8	- 36	- 7	S	5.3	58.2	0.0	3.8	84	10°	Cist.		
	10	- 36	- 5	S <sup>b</sup> W	2.8		-0.6	3.8	93	2°	Ci.	S	2
	Mn.	- 36	- 4	SE <sup>b</sup> S	2.5	58.9	-1.0	4.3	88	3	Ci.	S	
June 11.	2	81 36	122 5	SE <sup>b</sup> S	3.6				91	9	Cist.	S	
	4	- 37	- 6	ESE	5.1	57.4	-0.7	4.5	92	10	Cust.	S	
	6	- 37	- 6	ESE	4.0				89	10	Str.		
	8	- 38	- 7	SE <sup>b</sup> E	3.5	56.3	1.7	4.5	88	10	Str.		
	10	- 38	- 8	S	4.6		0.2	4.3	93	10	Str.		
	Noon	- 38	- 9	S	5.4	57.2	0.8	4.4	91	10	Cist.		
	2	- 39	- 9	S <sup>b</sup> E	5.8		0.8	4.5	93	10	Cicu.	S	
	4	- 39	- 9	S <sup>b</sup> E	6.8	58.2	0.9	4.6	95	10	Cist.		
	6	- 40	- 9	S <sup>b</sup> E	5.6		1.1	4.5	93	10	Str.		
	8	- 40	- 9	S <sup>b</sup> W	6.2	58.9	0.5	4.6	97	10	Str.		3
	10	- 40	- 9	SW <sup>b</sup> S	4.7		0.1	4.4	97	10	Str.		
	Mn.	- 41	- 9	SW <sup>b</sup> S	6.2	60.5	-0.2	4.3	95	10	Str.		
June 12.	2	81 41	122 9	SW <sup>b</sup> S	4.4				91	10	Str.		
	4	- 41	- 9	SW <sup>b</sup> S	3.2	62.0	0.3	4.1	88	10	Str.		
	6	- 42	- 9	S <sup>b</sup> W	2.6				85	10	Str.		
	8	- 42	- 9	S <sup>b</sup> W	2.4	62.9	0.7	4.1	85	10	Str.		
	10	- 42	- 9				1.4	4.1	82	10	Str.		
	Noon	- 43	- 9	SE <sup>b</sup> E	2.2	62.9	1.6	4.1	81	10	Str.		☐☐☐
	2	- 43	- 9	E	2.7		0.4	4.1	87	10	Cist.		
	4	- 43	- 10	E <sup>b</sup> N	1.9	61.9	0.4	4.1	88	10	Str.		*☐☐☐
	6	- 44	- 10	E	2.5		0.1	4.3	94	10	Snow.sk.		☐☐☐☐☐
	8	- 44	- 11	SE <sup>b</sup> E	2.5	60.9	0.7	4.5	92	10			☐☐☐☐☐
	10	- 44	- 11	SE	3.8		0.4	4.5	95	10	Str.		
	Mn.	- 45	- 12	S <sup>b</sup> E	4.5	59.6	0.2	4.4	94	10	Str.		
June 13.	2	81 45	122 12	S <sup>b</sup> E	2.7				94	10			☐☐☐
	4	- 45	- 13	S <sup>b</sup> E	4.2	59.5	0.2	3.9	93	10	Snow.sk.		☐☐☐*
	6	- 46	- 13	S	4.3				92	10	Str.		☐☐☐*
	8.15	- 46	- 14	W <sup>b</sup> N	3.9	60.0	0.5	4.0	90	10°	Ci.		
	10	- 46	- 14	W <sup>b</sup> N	2.4		-0.2	3.9	87	7	Cicu.	W	
	Noon	- 46	- 14	S <sup>b</sup> W	1.9	61.5	1.8	4.5	85	0			
	2	- 46	- 13	S <sup>b</sup> W	1.8		2.2	4.0	75	5	Cicu. <sup>4</sup>	S	
	4	- 46	- 13	S <sup>b</sup> W	2.4	62.2	1.3	3.9	78	3	Cicu. <sup>5</sup>	S	
	6	- 46	- 13	S <sup>b</sup> W	3.0		-1.3	3.6	87	10°	Ci.		m
	8	- 46	- 12	SSW	3.0	62.4	-2.3	3.5	90	10	Cist.		6
	10	- 46	- 11	SSW	3.8				90	10	Str.		☐☐☐
	Mn.	- 47	- 11	S <sup>b</sup> W	2.9	62.0	-1.3	3.8	92	10	Str.		
June 14.	2	81 47	122 10	SSW	2.6				86	10	Str.		
	4	- 47	- 9	S <sup>b</sup> W	3.8	62.3	-1.8	3.6	90	10	Str.		☐☐☐
	6	- 47	- 8	S <sup>b</sup> W	4.0				89	10	Str.		
	8	- 47	- 8	S	4.8	62.3	-0.6	4.0	90	10	Str.		
	10	- 48	- 7	SSE	5.8		-0.2	3.9	88	10	Cist.		7
	Noon	- 48	- 6	SSE	4.2	62.2	-0.1	4.0	87	10	Cust.		8
	2	- 48	- 6	S	5.5		1.1	4.6	92	10	Str.		9
	4	- 48	- 5	S <sup>b</sup> E	5.0	62.0	0.9	4.5	91	10	Str.		10
	6	- 48	- 4	S	4.1		0.4	4.4	92	10	Str.		11

<sup>1</sup> Clouds variable. <sup>2</sup> Light fog over the ice. <sup>3</sup> The wind all day showery. <sup>4</sup> Just over the western sky from S to N. <sup>5</sup> Only on the western sky. <sup>6</sup> Blue sky in N, and some smaller patches in NE. <sup>7</sup> Blue sky in S, and blue patches in N. <sup>8</sup> Blue sky in N. <sup>9</sup> Blue sky with few interruptions all round the horiz.; brightest and highest in N. <sup>10</sup> Blue sky over the horiz. from SE to NW. <sup>11</sup> Blue sky in N.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June	8	81° 48'	122° 4'	S	3.5	762.2	+0.4	4.3	90	10	Str.		1
	10	- 49	- 3	SSE	3.1				91	10	Str.		2
	Mn.	- 49	- 2	SE <sup>b</sup> S	4.3	61.6	-0.2	4.2	92	10	Str.		3
June 15.	2	81 49	122 2	SE <sup>b</sup> S	3.0				91	6	Cu.		4
	4	- 49	- 1	SE	3.5	61.3	-0.2	4.1	91	9	Cust.		
	6	- 49	- 0	SE	3.3				90	8	Cist.		5
	8	- 50	121 59	ESE	4.3	60.3	1.3	4.4	87	10	Str.		
	10	- 50	- 59	ESE	3.3		1.8	4.4	84	10	Cust.		6
	Noon	- 50	- 58	E <sup>b</sup> S	3.4	59.4	1.3	4.3	84	10	Str.		
	2	- 50	- 57	E	2.5		0.9	4.2	86	10	Cust.		7
	4	- 50	- 57	E	3.2	59.0	-0.1	4.0	89	10	Cust.	S	8
	6	- 51	- 56	E	4.4		-1.2	3.6	87	10	Cust.	S	
	8	- 51	- 55	E <sup>b</sup> S	2.4	58.2	-0.4	3.8	86	10	Str.		9
	10	- 51	- 54	NE <sup>b</sup> E	4.4				90		Cicu.	E	10
	Mn.	- 51	- 54	E	3.2	57.7	-0.6	4.1	92	10	Str.		11
June 16.	2	81 51	121 53	E	2.3		-0.6	4.0	90	3	Ci.	E	
	4	- 51	- 52	E <sup>b</sup> N	1.4	57.2	-0.6	3.6	84	5	Ci.	E	
	6	- 52	- 52	E <sup>b</sup> N	1.9				81		Cist.		
	8	- 52	- 50	E <sup>b</sup> S	3.0	56.9	0.5	3.8	81	10	Ci.		* ☉ m
	10	- 52	- 47	E <sup>b</sup> S	3.1		0.4	3.8	81	10	Cicu. Str.	SE	
	Noon	- 52	- 45		0	56.8	0.2	3.7	78	10	Cicu. Str.		
	2	- 52	- 44	S <sup>b</sup> E	1.9		1.1	3.9	77	10	Cist.	S	
	4	- 52	- 43	SSW	1.5	56.8	1.3	4.4	87	10	Cust.	SSE	
	6	- 52	- 41	S <sup>b</sup> W	1.8		1.3	4.6	91	10	Cust.	S	
	8	- 52	- 40	SW <sup>b</sup> W	2.3	56.8	0.0	3.8	83	10	Cicu. Str.		
	10	- 52	- 39		0				82	10	Cust.	S	
	Mn.	- 52	- 37	S <sup>b</sup> W	2.0	57.0	-0.4	3.7	84	10	Cust.		
June 17.	2	81 52	121 36	SSW	1.9				85	7	Cist.		12
	4	- 52	- 35	S <sup>b</sup> W	2.2	57.3	-0.2	3.8	83	10	Cist.		*
	6	- 52	- 33		0				87	7	Cust.		
	8	- 52	- 32	SSW	3.5	57.1	0.8	4.1	86	10	Str.		
	10	- 52	- 31	SSW	1.6		1.1	4.0	81	10	Str.		
	Noon	- 52	- 29	SSW	3.3	57.9	2.0	4.3	80	10	Str.		
	2	- 52	- 28	W <sup>b</sup> S	4.3		1.7	4.1	78	10	Cicu.	W	
	4	- 52	- 26	WSW	4.8	58.6	0.8	3.9	81	10	Cu.	W	
	6	- 52	- 25	W <sup>b</sup> S	4.7		0.5	4.0	84	10	Cust.	W	
	8	- 52	- 25	SW <sup>b</sup> S	4.0	59.4	-0.5	3.8	87	10	Cicu.	SW	
	10	- 52	- 25	W <sup>b</sup> S	3.3				90	10	Str.		
	Mn.	- 52	- 25	WSW	2.8	60.0	-1.7	3.6	89	10	Str.		
June 18.	2	81 52	121 26	WSW	2.5				88	10	Str.		
	4	- 52	- 26	SW <sup>b</sup> S	3.1	59.9	+1.1	4.4	87	10	Cust.		
	6	- 52	- 26	SW <sup>b</sup> W	3.0				83		Cust.		
	8	- 52	- 26	Var.	1.8	59.8	0.9	3.9	79	10	Str.		13
	10	- 52	- 26	NE <sup>b</sup> E	0.0			3.9	78	10	Cist.		14
	Noon	- 52	- 26	Var.	1.9	59.7	1.1	4.0	79	10°	Str.		15
	2	- 52	- 26	SE <sup>b</sup> E	1.7		0.3	4.1	88	10	Cist.		
	4	- 52	- 26	NE	0.0	59.8	1.5	4.3	84	10	Str.		

<sup>1</sup> Blue sky from S to NE, and patches of blue sky in N. <sup>2</sup> Blue sky in the horiz. in E to W and S. <sup>3</sup> Blue sky in SE. <sup>4</sup> Fog round the horiz. to a height of 15°. <sup>5</sup> Large and small patches of blue sky round the horiz. <sup>6</sup> Blue sky in NW. <sup>7</sup> Blue sky in S and E. Blue sky just on the horiz. in E and SE, with cicu. on the border between the blue and the cust. <sup>8</sup> Blue sky in NE to E, SE, N, and W; bluest in E and SE. <sup>9</sup> Blue sky in SW and NW. <sup>10</sup> Blue sky in SW, SE; brightest in W and E, inconsiderable on the north side. <sup>11</sup> Blue sky in NE. <sup>12</sup> Blue sky in SE from E to NE and in SW. <sup>13</sup> Blue sky in SW quadrant; in E very little. <sup>14</sup> Blue sky almost uniformly all round the horiz. far off. <sup>15</sup> Blue sky uniformly from SW through S to NE far off.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 18.	6	81°52'	121°27'	SE <sup>b</sup> E	1·8		1·7	3·9	76	10	Str.		<sup>1</sup> ≡ ≡ ≡
	8	- 52	- 27	NW <sup>b</sup> N	1·5	75·8	0·0	4·2	90	10	Str.		
	10	- 52	- 27		0				89	10	Str.		
	Mn.	- 51	- 27	W <sup>b</sup> S	1·7	59·9	- 2·4	3·5	92	10	Str.		
June 19.	2	81°51'	121°27'	W <sup>b</sup> S	2·7				92	5	Ci.		<sup>2</sup>
	4	- 51	- 27	W	1·4	58·7	- 1·0	3·8	88	8	Cust.		
	6	- 51	- 27	W	1·7				86	10	Cist.		
	8	- 51	- 28	WNW	3·2	58·4	0·0	4·3	95	10	Str.		
	10	- 51	- 28	NW <sup>b</sup> W	2·9		0·5	4·4	92	10	Str.		<sup>3</sup>
	Noon	- 51	- 28	NW	3·5	58·3	0·6	4·4	93	10	Str.		
	2	- 51	- 28	WNW	3·7		0·5	4·1	88	10	Str.		
	4	- 51	- 28	NW <sup>b</sup> W	3·9	58·4	0·5	4·3	91	10	Str.		
	6	- 51	- 28	NW	4·1		0·1	4·1	93	10	Str.		N NW NW
	8	- 50	- 28	NW <sup>b</sup> N	3·0	58·9	0·0	4·2	92	10	Cist.		
	10	- 50	- 28	NW <sup>b</sup> W	2·7				87	5	Cicu.		
	Mn.	- 50	- 29	N <sup>b</sup> W	2·7	58·7	- 0·1	4·0	87	5	Cicu.		
June 20.	2	81°50'	121°29'	NW	2·5				94		Str.		<sup>4</sup>
	4	- 50	- 29	NW	2·9	59·0	0·4	4·2	89	10	Str.		
	6	- 50	- 29	NW <sup>b</sup> W	3·3				85	10	Cust.		
	8	- 50	- 29	W <sup>b</sup> N	2·3	58·2	1·3	4·2	84	10	Str.		
	10	- 50	- 29	W	3·3		1·2	4·4	88	10	Str.		<sup>5</sup> ≡ ≡ ≡
	Noon	- 50	- 29	W <sup>b</sup> S	2·8	57·6	1·0	4·3	88	10	Str.		
	2	- 50	- 29	W <sup>b</sup> S	3·4		0·9	4·5	92	10	Str.		
	4	- 50	- 30	W <sup>b</sup> S	2·1	57·1	1·1	4·6	92	10	Str.		
	6	- 49	- 30	WNW	2·8		0·8	4·6	94	10	Str.		<sup>6</sup> ≡ ≡ ≡
	8	- 49	- 30	NW <sup>b</sup> N	2·5	57·2	0·9	4·5	92	10	Str.		
	10	- 49	- 30	NW	2·4				92	10	Str.		
	Mn.	- 49	- 30	NW <sup>b</sup> N	2·0	57·3	0·7	4·4	90	10	Str.		
June 21.	2	81°49'	121°30'	N <sup>b</sup> E	3·2				94		Str.		<sup>7</sup> ≡ ≡ ≡
	4	- 49	- 30	NW <sup>b</sup> N	3·0	57·9	- 0·3	4·2	94	10	Str.		
	6	- 49	- 31	N <sup>b</sup> W	3·6				93	10	Str.		
	8	- 49	- 31		0	58·1	0·4	4·1	88	10	Str.		
	10	- 49	- 31	SW	3·2		1·7	4·3	84	10	Str.		<sup>8</sup> ≡ ≡ ≡
	Noon	- 49	- 31	SW	2·2	56·9	2·4	4·8	87	10	Str.		
	2	- 48	- 31	WSW	3·5		1·2	4·4	88	10	Str.		
	4	- 48	- 32	SW	4·9	54·8	1·0	4·5	91	10	Str.		
	6	- 48	- 33	SW <sup>b</sup> W	5·5		0·6	4·3	91	10	Str.		* * * *
	8	- 48	- 33	W <sup>b</sup> S	5·2	52·0	0·5	4·5	95	10	Str.		
	10	- 48	- 34	W	5·1				94	10	Str.		
	Mn.	- 47	- 35	WNW	5·3	50·6	0·6	4·5	94	10	Str.		
June 22.	2	81°47'	121°35'	W <sup>b</sup> N	6·5				91	10	Str.		* * * *
	4	- 47	- 36	W <sup>b</sup> N	6·8	49·8	0·7	4·4	91	10	Str.		
	6	- 47	- 37	W <sup>b</sup> N	6·2				90	10	Str.		
	8	- 46	- 37	WNW	4·6	48·9	0·8	4·6	94	10	Str.		
	10	- 46	- 38	W	5·7		0·8	4·4	91	10	Str.		* * * *
	Noon	- 46	- 39	NW <sup>b</sup> W	5·8	48·0	0·7	4·6	94	10	Str.		
	2	- 46	- 39	NW <sup>b</sup> W	4·1		0·5	4·3	90	10	Str.		
	4	- 46	- 40	NW <sup>b</sup> W	5·8	48·2	0·7	4·2	87	10	Cicu.		
	6	- 45	- 40	NW <sup>b</sup> N	6·3		- 0·2	3·9	88	10	Cust.		N NW NNE N
	8	- 45	- 39	N <sup>b</sup> E	6·1	49·0	- 0·6	3·6	81	10	Cust.		
	10	- 45	- 37	NNW	4·5				85	10	Cust.		
	Mn.	- 45	- 36	NW	5·4	49·4	- 1·4	3·4	83	10	Str.		

<sup>1</sup> An insignificant blue patch in SE. <sup>2</sup> Thick on the horiz. Clear for only about a naut. mile. <sup>3</sup> Bank all round the horiz. to a height of about 10°. — opposite the sun. <sup>4</sup> Blue sky in S—NE and N—NW. <sup>5</sup> Uniformly thick in the horiz. <sup>6</sup> Some pale blue sky in NE. 3 p.m. \*<sup>7</sup> p.m. Showers of \*<sup>8</sup>.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 23.	2	81° 44'	121° 35'	NW <sup>b</sup> N	5.3				90	10	Cust.	NW	*
	4	- 44	- 33	NW <sup>b</sup> N	6.0	748.6	-1.8	3.4	87	10	Str.		
	6	- 44	- 32	NW <sup>b</sup> N	4.0				89	10	Cist.		
	8	- 44	- 31	NW <sup>b</sup> N	4.4	48.6	-0.2	4.0	89	7	Cicu.	N	
	10	- 44	- 29	NW <sup>b</sup> N	3.3		-0.8	4.2	97	10	Cicu.Str.	NW	
	Noon	- 44	- 28	N <sup>b</sup> W	5.9	48.7	1.0	4.3	88	10	Cist.		☉ *
	2	- 44	- 27	N <sup>b</sup> E	4.8		1.0	4.5	90	10	Cist.		☉ *
	4	- 43	- 26	NNE	4.5	49.6	0.3	4.3	92	10	Str.		☉ *
	6	- 43	- 25	NE <sup>b</sup> N	6.0		0.2	4.3	93	10	Str.		☉ *
	8	- 43	- 24	NE <sup>b</sup> N	6.0	50.8	0.1	4.3	92	10	Cust.	NE	☉ *
	10	- 43	- 23	NE <sup>b</sup> N	5.8				94	10	Str.		☉ *
	Mn.	- 43	- 22	NE <sup>b</sup> N	7.8	52.0	0.5	4.5	94	10	Str.		☉ *
June 24.	2	81 42	121 20	NE <sup>b</sup> N	6.0				91		Str.		☉ *
	4	- 42	- 19	NE	7.0	53.5	-1.2	3.8	91	10	Str.		☉ *
	6	- 42	- 18	NNE	7.9				88	10	Str.		
	8	- 42	- 17	N <sup>b</sup> E	7.8		-1.4	3.6	87	10	Str.		☉ * <sup>1</sup>
	10	- 42	- 16	N <sup>b</sup> E	7.3		-1.2	4.1	82	10	Cust.	NE	
	Noon	- 42	- 15	NNE	6.3	56.3	-0.5	3.3	75	10	Cicu.	NNE	
	2	- 42	- 13	N	5.0		0.1	3.8	83	10	Cicu.	NE	
	4	- 41	- 11	N	6.0	57.1	0.3	4.1	88	10	Cust.	N	
	6	- 41	- 9	N <sup>b</sup> W	4.5		-1.0	3.9	92	10	Cust.		☉ *
	8	- 41	- 7	N <sup>b</sup> W	4.5	57.8	-0.6	3.8	87	10	Cust.	N	
	10	- 41	- 5	N <sup>b</sup> W	4.8				92	10	Str.		<sup>2</sup>
	Mn.	- 40	- 3	N <sup>b</sup> W	4.0	57.8	-0.2	4.2	93	10	Str.		
June 25.	2	81 40	121 1	N <sup>b</sup> W	5.5				95	10	Str.		
	4	- 40	120 59	N <sup>b</sup> W	4.8	58.4	-1.9	3.7	94	7	Cicu.	N	
	6	- 39	- 57	NW <sup>b</sup> N	5.2				93	10	Ci.		
	8	- 39	- 55	N <sup>b</sup> W	4.7	58.6	-0.5	4.0	93	4°	Cicu.	N	
	10	- 39	- 59	N <sup>b</sup> W	4.5		-0.7	3.9	89	10	Ci.	N	
	Noon	- 39	- 59	NW <sup>b</sup> N	5.0	58.6	-0.8	4.0	92	10	Cicu.	N	
	2	- 39	121 0	NW <sup>b</sup> N	5.3		-0.9	3.9	90	10	Cicu.	N	
	4	- 39	- 0	NW <sup>b</sup> N	4.4	58.6	-0.7	3.8	87	10	Cust.	N	<sup>3</sup>
	6	- 39	- 1	NW <sup>b</sup> N	4.3		-0.5	3.9	88	10	Cust.	N	<sup>4</sup>
	8	- 38	- 1	NW <sup>b</sup> N	4.9	58.2	-0.9	3.9	90	9	Cust.		<sup>5</sup>
	10	- 38	- 1	NW <sup>b</sup> N	4.8				88	9	Cicu.	N	
	Mn.	- 38	- 2	NW <sup>b</sup> N	4.9	57.7	-2.3	3.5	89	8	Cicu.	N	
June 26.	2	81 38	121 2	NW <sup>b</sup> N	4.2				89	10	Str.		
	4	- 38	- 2	NW <sup>b</sup> N	4.0	57.5	-1.0	3.5	82	9	Str.		
	6	- 37	- 3	NW <sup>b</sup> W	5.4				78	10	Str.		
	8	- 37	- 3	NW <sup>b</sup> N	4.1	57.3	-1.5	3.1	77	10	Cust.	N	
	10	- 37	- 4	NW <sup>b</sup> N	5.4		-1.5	3.5	87	10	Cust.	N	
	Noon	- 37	- 4	NW	4.4	57.6	-1.3	3.6	86	10	Cust.		
	2	- 37	- 4	NW <sup>b</sup> N	5.2		-1.0	3.7	86	10	Cust.		
	4.30	- 37	- 5	NW <sup>b</sup> N	4.2	58.3	-0.8	3.9	90	10	Str.		*
	6	- 36	- 5	NW <sup>b</sup> N	4.1		-1.0	3.7	87	10	Cust.		
	8	- 36	- 6	NW <sup>b</sup> W	4.2	58.9	-0.9	3.7	87	10	Cust.		
	10	- 36	- 7	NW <sup>b</sup> N	3.5				88	10	Cust.	NW	<sup>6</sup>
	Mn.	- 36	- 7	NW <sup>b</sup> W	2.5	58.8	-0.2	3.9	88	8	Str.		
June 27.	2	81 36	121 8	NW <sup>b</sup> N	2.7				89	10	Str.		
	4	- 36	- 8	W <sup>b</sup> N	3.8	59.1	-0.4	3.9	88	10	Str.		
	6	- 36	- 9	W <sup>b</sup> N	2.7				82	10	Cist.		<sup>7</sup>
	8	- 36	- 9	SW <sup>b</sup> W	2.7	58.7	-0.1	3.7	82	10	Cust.		<sup>8</sup>
	10	- 36	- 10	SW <sup>b</sup> W					82	10	Cust.		
	Noon	- 36	- 11	SW <sup>b</sup> W	6.7	57.5	0.3	4.3	93	10	Str.		<sup>9</sup>

<sup>1</sup> Blue sky NW to NE. <sup>2</sup> Blue sky E-SE. <sup>3</sup> Blue sky in E horiz. from NE to SE (faint). <sup>4</sup> Clearing up in N. <sup>5</sup> Blue sky in NW. Uniformly blue sky from NE to SW through E. <sup>6</sup> Blue sky in W from SE, and a single patch in NW. <sup>7</sup> Blue sky in SW. <sup>8</sup> Drifting W past the sun, could not be accurately observed. <sup>9</sup> ☉ \*<sup>2</sup> from 10.30 p. m.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 27.	2	81°35'	121°11'	SW <sup>b</sup> W	5.5		0.5	4.4	92	10	Str.		☉*
	4	- 35	- 12	SW <sup>b</sup> W	4.1	756.2	0.9	4.3	88	9	Str.		1
	6	- 35	- 11	SW <sup>b</sup> W	6.2		1.4	4.3	85	6	Ci. Cist.		2
	8	- 35	- 11	SW <sup>b</sup> W	6.3	55.1	0.5	4.0	83	4	Ci.	SW	3
	10	- 35	- 12	SW	5.6				85	0			4
	Mn.	- 35	- 12	SW	7.7	53.4	-0.1	4.0	87	10	Cust.	SW	5
June 28.	2	81 35	121 15	SW <sup>b</sup> W	7.7				96	10	Str.		
	4	- 35	- 18	SW <sup>b</sup> W	7.1	51.5	-0.3	4.4	98	10	Str.		
	6.30	- 35	- 21	SW <sup>b</sup> W	7.4				96	10	Str.		
	8	- 35	- 23	SW <sup>b</sup> W	9.7	50.1	-0.4	4.1	93	10	Str.		6
	10	- 35	- 26	SW <sup>b</sup> W	5.9		0.0	4.3	92	10	Str.		
	Noon	- 35	- 29	SW <sup>b</sup> W	6.5	48.6	0.6	4.4	93	10	Str.		☉°
	2	- 35	- 31	SW <sup>b</sup> W	7.6		0.7	4.7	96	10	Str.		7
	4	- 35	- 34	SW <sup>b</sup> W	7.0	47.1	0.5	4.6	97	10	Str.		
	6	- 35	- 37	SW <sup>b</sup> W	7.2		0.5	4.6	96	10	Str.		
	8	- 35	- 39	SW <sup>b</sup> W	8.9	46.5	0.7	4.5	93	10	Str.		
	10	- 35	- 42	W <sup>b</sup> S	6.7				94	10	Str.		
	Mn.	- 35	- 45	W <sup>b</sup> S	7.4	46.5	0.4	4.5	95	10	Str.		
June 29.	2	81 35	121 47	W <sup>b</sup> S	6.3				95	10	Str.		
	4	- 35	- 50	W <sup>b</sup> S	7.1	47.1	0.6	4.5	94	10	Str.		
	6	- 34	- 53	WSW	6.0				93	10	Str.		
	8	- 34	- 55	W <sup>b</sup> S	6.3	48.7	0.7	4.5	92	10	Str.		
	10	- 34	- 58	W	5.8		0.7	4.5	93	10	Str.		
	Noon	- 34	122 1	WSW	5.4	50.3	0.4	4.5	95	10	Str.		
	2	- 34	- 3	WSW	6.5		-0.1	4.2	92	10	Str.		
	4	- 34	- 6	W <sup>b</sup> S	3.9	51.3	0.5	4.4	92	10	Str.		
	6	- 34	- 9	W <sup>b</sup> S	5.3		0.2	4.3	93	10	Str.		8
	8	- 34	- 11	W <sup>b</sup> S	3.3	51.8	0.3	4.3	92	10	Str.		9
	10	- 34	- 14	W <sup>b</sup> S	4.2				92	10	Str.		10
	Mn.	- 34	- 17	WSW	4.5	52.3	0.1	4.3	95	10	Str.		
June 30.	2	81 34	122 20	SW <sup>b</sup> W	3.2				94	10	Str.		11
	4	- 34	- 22	S <sup>b</sup> E	2.7	51.7	0.3	4.4	95	10			≡
	6	- 34	- 25	S <sup>b</sup> E	3.6				94	10	Str.		≡
	8	- 34	- 28	S <sup>b</sup> W	3.3	51.3	0.9	4.5	93	10	Str.		≡
	10	- 34	- 30	S <sup>b</sup> E	4.4		0.4	4.5	96	10	Str.		≡☉°
	Noon	- 34	- 33	S <sup>b</sup> E	4.0	50.0	0.8	4.6	94	10	Str.		
	2	- 34	- 36	S	6.0		0.8	4.6	95	10	Str.		
	4	- 34	- 38	SSW	4.6	48.7	1.1	4.6	92	10	Str.		12
	6	- 34	- 41	SW <sup>b</sup> S	4.2		0.9	4.6	95	10	Str.		
	8	- 34	- 44	S <sup>b</sup> W	4.2	47.8	0.9	4.5	93	10	Str.		13
	10	- 34	- 46	SW <sup>b</sup> S	4.6		0.7	4.7	98	10	Str.		≡
	Mn.	- 33	- 49	SW <sup>b</sup> W	3.8	47.3	0.2	4.4	95	10	Str.		≡
July 1.	2	81 33	122 52	WSW	4.8				95	10	Str.		
	4	- 33	- 54	WSW	4.8	47.6	0.0	4.3	94	8	Str.		
	6	- 33	- 57	WSW	4.8				91	8	Cist.		14
	8	- 33	- 58	W <sup>b</sup> S	3.9	48.6	0.6	4.3	90	10	Str.		

<sup>1</sup> Clearing up from SW and W. Blue sky in E and NE. <sup>2</sup> High faint ci. from N, low cist. from SW continually drifting in patches. Blue sky in horiz. continuously from N to SSW, and in NW and W. Brightest in NW and E. <sup>3</sup> Bank of clouds over the horiz. from N to W. <sup>4</sup> Thick bank of clouds on the horiz. from W to ENE, with blue sky nearest the ice. <sup>5</sup> Bank of clouds with blue sky underneath on the horiz. from NE to W. In the course of 10 min. it was overcast; at 11.30 p.m. the sky was clear. <sup>6</sup> Blue sky in SW. Strong ice-blink from SW through S to E. <sup>7</sup> Blue sky on the horiz. from SW through S to E. <sup>8</sup> Thin bank of fog in SE. <sup>9</sup> Rather deep blue sky in S. Clear strip over the horiz. in N to NW. <sup>10</sup> Uniformly blue sky from SW through E to S. Also blue sky in W and from E to NE. <sup>11</sup> Uniformly blue sky from N to SE. <sup>12</sup> Faint blue sky in SE. <sup>13</sup> Blue sky in SW and NE. <sup>14</sup> High ci. above.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 1.	10 Noon	81°33'	123° 0'	W	5·8		0·4	4·3	91	10	Str.		
		- 33	- 1	W <sup>b</sup> N	5·5	749·2	0·2	4·0	88	10	Cu.	NW	
	2	- 33	- 2	W <sup>b</sup> N	5·6		0·2	4·1	89	10	Str.		* <sup>1</sup>
	4	- 33	- 4	WNW	4·2	52·1	0·6	4·2	89	10	Str.		2
	6	- 33	- 6	W <sup>b</sup> N	5·5		0·5	4·3	91	10	Cicu. Str.	NW	
	8	- 33	- 7	NW <sup>b</sup> W	4·5	54·6	-0·1	4·1	91	9°	Cicu. Str.	NW	3
	10	- 33	- 8	NW <sup>b</sup> W	6·0		-0·1	4·0	89	8°	Cicu. Str.	NW	4
	Mn.	- 33	- 9	W	3·4	56·5	-0·5	3·7	83	10	Str.		* <sup>0</sup>
July 2.	2	81 33	123 10	W	4·3				81	10	Cist.		
	4	- 32	- 11	W	3·0	57·5	-0·6	3·7	85	4	Cist.	W	5
	6	- 32	- 12	W	3·0				91	0			
	8	- 32	- 13	SW <sup>b</sup> W	3·8		0·4	4·2	89	7°	Ci.	W	
	10	- 32	- 14	SW	5·2		0·6	4·2	88	10	Cicu.	W	6
	1	- 32	- 15	SW	4·0	58·6	1·0	4·3	87	9	Cist.	SW	7
	2	- 32	- 16	SW	3·6		1·0	4·3	88	9	Cicu. Cist.	SW	
	4	- 32	- 17	S <sup>b</sup> W	3·4	58·6	0·6	4·3	90	10	Cist.		
	6	- 32	- 17	S <sup>b</sup> E	3·5		0·3	4·5	96	10	Cist.	SW	
	8	- 33	- 18	SE <sup>b</sup> E	4·6	57·2	-0·8	4·6	95	10	Str.		≡
	10	- 33	- 19	SSE	5·9		-0·8	4·7	96	10	Str.		
	Mn.	- 33	- 20	SSE	5·6	54·7	-0·8	4·6	95	10	Str.		*
July 3.	2	81 33	123 21	SE <sup>b</sup> E	7·6				95	10	Str.		* <sup>0</sup>
	4	- 34	- 22	SE <sup>b</sup> E	7·0	50·2	-0·9	4·0	94	10	Str.		* <sup>0</sup>
	6	- 34	- 23	SE <sup>b</sup> E	10·5				97	10	Str.		* <sup>0</sup>
	8	- 34	- 24	SSE	6·2	47·3	0·5	4·7	98	10	Str.		⊙* <sup>0</sup>
	10	- 34	- 25	S	3·6		0·7	4·7	96	10	Str.		≡⊙ <sup>0</sup>
	Noon	- 35	- 26	SW <sup>b</sup> S	4·2	46·1	1·5	4·8	95	10	Str.		
	2	- 35	- 27	WSW	4·4		1·3	4·8	94	10	Str.		
	4	- 35	- 28	W <sup>b</sup> S	4·9	46·5	0·8	4·6	95	10	Cist.		8
	6	- 35	- 24	W <sup>b</sup> N	6·0		0·4	4·3	93	10	Cu.	W	
	8	- 35	- 21	WNW	6·3	49·1	0·1	4·0	87	10	Cu.	NW	
	10	- 35	- 21	WNW	6·5		-0·3	3·8	86	10	Cicu.	NW	
	Mn.	- 35	- 21	WNW	6·2	50·7	-0·3	4·1	91	10	Cist.	NW	
July 4.	2	81 35	123 24	W <sup>b</sup> N	5·0				93	10	Str.		⊙* <sup>0</sup>
	4	- 35	- 27	W <sup>b</sup> N	5·5	53·2	-0·4	4·3	96	10	Str.		⊙* <sup>0</sup>
	6	- 34	- 30	W <sup>b</sup> N	4·0				85	10	Cust.	W	
	8	- 34	- 33	W <sup>b</sup> S	6·3	55·0	-0·9	4·1	97	9	Cist. Cicu. Str.	W	9
	10	- 34	- 36	WSW	6·3		0·3	4·1	88	10	Cist.		
	Noon	- 34	- 38	W <sup>b</sup> S	5·4	55·8	0·4	4·4	92	10	Cist.	W	
	2	- 34	- 41	W <sup>b</sup> S	5·6		0·2	4·4	95	6	Cist. Cicu.	W	10
	4	- 34	- 44	W <sup>b</sup> S	5·7	56·7	0·2	4·5	96	10	Cist.	W	11
	6	- 34	- 47	W <sup>b</sup> S	5·7		0·0	4·3	94	10	Str.		
	8	- 34	- 50	WSW	6·1	57·3	0·5	4·3	90	9	Cicu. Cist.	WSW	12
	10	- 34	- 53	SW	5·7		0·0	4·1	89	0			13
	Mn.	- 34	- 55	SW <sup>b</sup> S	5·4	56·7	-0·3	4·2	89	0			
July 5.	2	81 33	123 56	SW	6·5				84	0			14
	4	- 33	- 57	SW	5·7	56·0	-0·3	4·0	89	10	Str.		
	6	- 33	- 59	WSW	6·0				94	10	Str.		
	8	- 33	124 0	W	4·1	56·0	-0·1	4·3	95	9	Ci. Cust.	W	⊙* <sup>15</sup>

<sup>1</sup> Blue sky from SW through S to SE. Also from E to NE right out on the horiz. <sup>2</sup> Low blue sky in S through E to NE far off. <sup>3</sup> Dark sky in S and E, besides dark patches all round the horiz. <sup>4</sup> Dark sky all round the horiz. especially from SW through S and E to N. <sup>5</sup> Ci. only on the E sky. <sup>6</sup> High ci. Blue sky in E. <sup>7</sup> Low variable cist. <sup>8</sup> Thick, misty horiz. Coloured — opposite the sun. <sup>9</sup> Just after 8 p. m. the veil of cloud varied as entered. <sup>10</sup> Coloured — circ. from 5° to 10° high. <sup>11</sup> Coloured — circ. from 10° to 15° high. <sup>12</sup> Blue sky on the horiz. from NW through N to ESE. A few cu. on the horiz. in N. <sup>13</sup> A single dark cloud on the same spot as at 10 p. m., but higher in the sky. <sup>14</sup> A bank of fog from NE to NW, 5° high. <sup>15</sup> \* ceased just after the observation.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 5.	10	81° 33'	124° 1'	WSW	3.3		0.0	4.3	94	10	Cist.		
	Noon	- 33	- 2	W	3.5	75.6	0.2	4.1	91	10	Cicu. Cust.	W	1
	2	- 33	- 3	W	3.0		0.0	4.3	93	10	Cist.		
	4	- 33	- 4	W	3.1	55.2	-0.3	4.1	92	10	Cicu. Str.	W	2
	6	- 33	- 6	W	2.0		-0.7	3.9	89	3°	Ci.	W	
	8	- 33	- 8	W	1.6	54.9	-0.1	4.0	87	2°	Ci.	W	
	10	- 32	- 11	W	3.9		-1.3	3.7	89	0			3
July 6.	Mn.	- 32	- 14	W	4.8	54.8	-2.0	3.7	95	10°	Cist.		≡ <sup>4</sup>
	2	81 32	124 17	W	3.6				94	8	Cist.	W	≡ <sup>5</sup>
	4	- 32	- 20	W	4.6	55.1	-1.9	3.7	94		Str.		≡
	6	- 31	- 23	W	4.7				90	10	Cist.		
	8	- 31	- 26	W <sup>b</sup> N	5.4	54.1	-0.3	4.1	90	10	Str.		u
	10	- 31	- 29	W <sup>b</sup> N	5.2		0.0	4.2	90	10	Cust.	W	
	Noon	- 31	- 32	W	5.5	53.5	0.1	4.2	91	10	Cust.	W	
	2	- 31	- 35	W <sup>b</sup> N	8.0		0.0	4.3	94	10	Cicu.	W	
	4	- 31	- 38	W <sup>b</sup> N	7.5	53.5	0.0	4.3	92	10	Cist.	W	
	6	- 31	- 41	W <sup>b</sup> N	7.6		0.4	4.3	92	10	Cist.	W	
	8	- 31	- 43	WNW	7.8	53.3	0.1	4.3	93	9	Cicu. Str.	W	
	10	- 31	- 44	W <sup>b</sup> N	7.0		0.1	4.3	93	10	Str.		
	Mn.	- 30	- 43	W <sup>b</sup> N	8.8	52.7	0.3	4.1	97	10	Str.		
July 7.	2	81 30	124 42	W <sup>b</sup> N	7.2				93	10	Cist.	W	
	4	- 29	- 41	W <sup>b</sup> N	6.2	52.6	0.4	4.5	97	10	Str.		
	6	- 29	- 40	W <sup>b</sup> N	6.5				99	10	Str.		
	8	- 28	- 39	NW <sup>b</sup> W	7.8	52.3	0.7	4.6	94	10	Str.		7
	10	- 28	- 38	NW	5.7		0.8	4.4	90	10	Str.		
	Noon	- 27	- 36	NW <sup>b</sup> W	6.8	53.1	0.9	4.5	93	10	Str.		
	2	- 27	- 35	NW	6.5		0.6	4.5	93	10	Cust.	NW	
	4	- 26	- 34	NW	6.8	53.7	0.8	4.5	93	10	Str.		
	6	- 26	- 33	NW	6.5		0.6	4.5	95	10	Str.		8
	8	- 25	- 32	NW <sup>b</sup> N	5.3	54.9	0.4	4.5	97	10	Str.		
	10	- 25	- 31	N <sup>b</sup> W	6.0		0.2	4.5	97	10	Cist.		⊙ <sup>9</sup>
	Mn.	- 24	- 30	NW <sup>b</sup> N	6.4	56.4	-0.1	4.2	92	10	Cist.		
July 8.	2	81 24	124 28	NW	5.2				99	10	Cist.		≡ <sup>9</sup>
	4	- 23	- 27	NW	5.2	57.5	-0.3	4.1	91	0			10
	6	- 23	- 26	NW	5.4				96	8	Str.		
	8	- 22	- 23	WNW	4.6	57.8	0.2	4.4	94	10	Cist.	NW	11
	10	- 22	- 24	NW	4.0		0.2	4.2	91	10	Cust.	NW	
	Noon	- 22	- 26	NW	3.0	58.8	0.1	4.2	91	10	Cicu.	NW	
	2	- 22	- 27	NW	4.3		0.9	4.6	94	10°	Ci.	NW	m
	4	- 22	- 29	NW	4.7	59.5	1.0	4.7	95	10	Cist.	NW	
	6	- 22	- 30	NW	4.6		1.1	4.7	94	10	Cu. Cist.	NW	
	8	- 22	- 30	N <sup>b</sup> W	3.0	60.2	0.6	4.6	96	10	Cist.	NW	
	10	- 22	- 30	NW <sup>b</sup> W	4.2		-0.1	4.4	97	10	Cicu. Str.	NW	12
	Mn.	- 21	- 30	NW <sup>b</sup> W	4.6	60.8	0.1	4.4	96	9	Cist.		
July 9.	2	81 21	124 30	NW	3.8				96	10	Str.		
	4	- 21	- 31	NW <sup>b</sup> W	4.4	61.0	0.5	4.6	96	10	Str.		
	6	- 20	- 31	NW <sup>b</sup> W	3.8				96	10	Str.		
	8	- 20	- 31	NW <sup>b</sup> W	3.9	61.3	0.7	4.6	96	10	Cicu. Str.	NW	

<sup>1</sup> Dark banks of cloud on the horiz. in SE. <sup>2</sup> A bank from SW to SE over S on the horiz. <sup>3</sup> — circ. 20° high in SE, faintly coloured. <sup>4</sup> Thin fog over the ice. Oily sun. — over the S sky. <sup>5</sup> Sun. Fog in N and S. Fog-bow in S. <sup>6</sup> 7.30 and 8 p. m. cist. of varying thickness. Some blue sky in NE, N and NW. <sup>7</sup> Blue sky uniformly all round the horiz. except NW. Brightest in the SW quadrant. <sup>8</sup> Thick. <sup>9</sup> Fog with d. <sup>10</sup> Now and then light fog. Fog-bow in SW. <sup>11</sup> Misty on the horiz. <sup>12</sup> Blue sky on horiz., in the SE quadrant.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 9.	10	81°20'	124°31'	WNW	4.0		0.7	4.5	94	10	Cist.		
	Noon	- 20	- 31	WNW	3.6	762.0	0.7	4.5	94	10	Cist.	NW	
	2	- 20	- 31	W <sup>b</sup> N	4.3		0.2	4.4	95	10	Cist.	W	
	4	- 19	- 31	NW <sup>b</sup> W	3.6	62.2	0.0	4.3	94	8	Cist.	NW	≡°
	6	- 19	- 31	WNW	2.4		-0.1	4.2	92	9	Cist.	WNW	1
	8	- 19	- 31	W <sup>b</sup> N	3.0	62.1	-0.2	4.1	90	5	Ci.	WNW	2
	10	- 19	- 31	W <sup>b</sup> N	2.8		-0.8	3.8	89	4°	Ci. Cist.	WNW	3
	Mn.	- 19	- 32	W <sup>b</sup> N	2.9	62.3	-2.1	3.7	94	10	Cust.	W	
July 10.	2	81 19	124 32	W <sup>b</sup> N	2.2				90	10	Cist.		
	4	- 19	- 32	W <sup>b</sup> N	3.9	61.9	-1.3	3.8	93	10	Str.	W	≡°
	6	- 18	- 32	WNW	2.4				94	8	Cist.	WNW	≡°
	8	- 18	- 32	W <sup>b</sup> N	2.5	61.8	-0.6	4.1	95	9	Cieu.Cist.	W	4
	10	- 18	- 32	W	3.5		-0.1	4.1	91	10	Cust.		5
	Noon	- 18	- 32	W <sup>b</sup> N	3.6	61.6	0.4	4.4	92	10	Cust.	W	6
	2	- 18	- 33	W	2.3		0.7	4.4	91	10	Cist.	W	≡
	4	- 18	- 33	W	2.4	62.1	0.7	4.5	93	10	Cust.		
	6	- 18	- 34	W	1.5		1.5	4.5	81	10	Cu.	W	
	8	- 19	- 34	W	1.5	62.3	1.9	4.6	88	10	Cieu.	W	7
	10	- 19	- 35		0		1.1	4.3	87	0			
	Mn.	- 19	- 36		0	62.6	0.7		0	0			8
July 11.	2	81 19	124 36		0		2.1	4.2	79	0			
	4	- 19	- 37		0	63.1	1.2	4.0	81	0			
	6	- 19	- 38	S <sup>b</sup> E	1.5				89	1	Ci.	W	
	8.15	- 19	- 38	SSE	2.3	63.0	1.0	4.5	90				9
	10	- 19	- 38	S <sup>b</sup> E	3.0		1.2	4.4	89	0			10
	Noon	- 19	- 38	S	2.8	62.8	1.5	4.5	89	10	Ci.	WSW	
	2	- 19	- 38	S	3.6		1.4	4.6	91	10	Cu.	WSW	
	4	- 19	- 37	S <sup>b</sup> E	4.4	62.4	0.8	4.6	94	10	Cust.		
	6	- 20	- 37	S <sup>b</sup> E	2.8		0.6	4.6	94	10	Cust.		
	8	- 20	- 37	S	4.2	62.2	0.6	4.5	95	10	Str.		⊙ Δ <sup>11</sup>
	10	- 20	- 37	S <sup>b</sup> E	3.9		0.6	4.5	94	10	Str.		12
	Mn.	- 20	- 37	S <sup>b</sup> E	3.8	61.7	0.7	4.3	90	10	Str.		
July 12.	2	81 21	124 37	S	4.4				94	10	Str.		
	4	- 21	- 37	S <sup>b</sup> E	2.4	61.3	0.8	4.6	95	10	Str.		⊙ <sup>13</sup>
	6	- 21	- 36	S <sup>b</sup> E	4.7				97	10	Str.		⊙ <sup>14</sup>
	8	- 22	- 36	S <sup>b</sup> E	5.0	60.7	1.0	4.7	94	10	Cust.		15
	10	- 22	- 36	SE <sup>b</sup> S	3.3		1.6	4.8	93	10	Cust.		
	Noon	- 22	- 36	SSE	3.6	60.3	1.6	4.7	91	10	Cu.	W	
	2	- 22	- 36	SSE	4.5		1.9	4.8	91	10	Cu.	W	
	4	- 22	- 37	SSE	3.5	59.9	2.2	4.7	87	3	Ci.		16
	6	- 22	- 37	SSE	3.8		2.1	4.7	87				17
	8	- 23	- 35	SSE	3.4	59.4	1.9	4.8	92	0			
	10	- 23	- 35	SSE	4.3		1.5	4.7	93				
	Mn.	- 24	- 34	SSE	4.7	58.4	1.6		95				
July 13.	2	81 24	124 34	SE <sup>b</sup> S	5.0		2.0	5.1	96				
	4	- 24	- 34	SE	5.0	58.0	2.1	4.9	93				
	6	- 25	- 33	SE <sup>b</sup> S	6.0				92				

<sup>1</sup> p. m. coloured — opposite the sun. <sup>2</sup> Only on the W sky — in SE faintly coloured. <sup>3</sup> Single clouds. Fog over the ice. <sup>4</sup> Blue sky from WNW to W, and from S to ESE, tolerably deep, clear at horiz. <sup>5</sup> Blue sky on the E sky from NE to SE faint. Deeper blue from SW to NW. <sup>6</sup> Deep blue sky in W, fainter thence towards the S. From NW to N bright blink from SW to SE. Pale blue sky from SE to E. <sup>7</sup> Low banks of cloud on the horiz. all round. Misty over the ice in N. <sup>8</sup> Low banks of cloud on the horiz. in S, SW and ENE. Misty over the ice in N. Wind from W is perceptible. <sup>9</sup> Some low banks of ci. in W. <sup>10</sup> Some single strips of ci. on the S and E sky. <sup>11</sup> Showers of ⊙ and Δ. <sup>12</sup> Almost uniformly blue sky all round the horiz.; deepest in W. <sup>13</sup> 3 p. m. ⊙. <sup>14</sup> 5 p. m. ⊙<sup>2</sup>. <sup>15</sup> Blue sky in NW—W. Sharply defined towards N. <sup>16</sup> Single ci. over the horiz. in E. <sup>17</sup> Single ci. on the horiz. in WSW.



1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 13.	8	81°25'	124°33'	SE	6.1	755.6	2.6	4.9	90				1
	10	- 26	- 35	SE	7.1		2.5	4.9	89				2
	Noon	- 27	- 38	SSE	7.0	55.1	1.5	4.8	96	10	Str.		☉
	2	- 27	- 40	SSE	6.3		1.1	4.9	99	10	Str.		☉
	4	- 28	- 42	S <sup>b</sup> E	6.9	54.5	1.0	4.9	100	10			☉
	6	- 28	- 44	S <sup>b</sup> E	6.6		1.4	4.9	96	10	Cu.	S	3
	8	- 29	- 47	S	7.0	53.6	1.8	4.8	91		Ci.		4
	10.15	- 29	- 49	S	7.3		2.0	5.0	95		Ci. Ci.	SW	5
	Mn.	- 30	- 51	S <sup>b</sup> W	7.4	53.3	2.7	5.3	95	0			
July 14.	2	81 31	124 53	S <sup>b</sup> W	6.5				94	0			
	4	- 31	- 56	S <sup>b</sup> W	5.0	53.8	2.6	5.2	94	7	Ci.	S	6
	6	- 32	- 58	S <sup>b</sup> W	5.4				94	0			7
	8	- 32	125 0	SSW	4.3	54.7	3.0	5.3	93	0			8
	10	- 32	- 0	SSW	3.6		2.8	4.5	81	0			
	Noon	- 32	- 0	SSW	4.0	54.6	2.5	4.6	82	4	Ci.	SW	
	2	- 32	- 0	SSW	3.4		2.0	4.8	92	5	Cicu.	W	
	4	- 32	124 59	SSW	3.0	54.3	1.5	4.8	93	10			m
	6	- 32	- 59	S <sup>b</sup> W	3.0		0.7	4.7	97	10			☉, m
	8	- 32	- 59	S <sup>b</sup> W	2.3	54.1	1.0	4.8	97	10	Ci.	SW	m
	10	- 32	- 59	S <sup>b</sup> W	1.7		1.2	4.9	96	6	Cicu.	SW	9
	Mn.	- 32	125 0	S <sup>b</sup> W	1.8		1.7	4.8	93	5			
July 15.	2	81 33	125 1	S <sup>b</sup> W	2.8	52.5			94	8	Cist.	SW	
	4	- 33	- 1	S	3.0	52.5	1.0	4.7	96	10			☉, m
	6	- 33	- 2	S <sup>b</sup> W	3.0		1.2	4.9	96	10			☉
	8	- 33	- 3	S <sup>b</sup> W	3.4	51.8	1.5	4.8	95	10	Cicu. Cist.	W	☉
	10	- 33	- 4	SW <sup>b</sup> S	3.2		1.7	4.9	95	10	Cicu.	W	☉
	Noon	- 34	- 5	SW <sup>b</sup> S	1.7	51.3	2.7	5.1	92	10	Cicu.	W	☉
	2	- 34	- 5	S <sup>b</sup> W	3.3		2.9	5.1	91	9	Cicu. Str.	W	10
	4	- 33	- 5	SW <sup>b</sup> S	3.8	51.1	1.8	5.1	97	10			☉ <sup>11</sup>
	6	- 33	- 5	SW <sup>b</sup> S	3.5		0.8	4.9	97	10			☉
	8	- 33	- 5	SW <sup>b</sup> W	3.6	50.6	0.9	4.7	97	10	Str.		
	10	- 33	- 5	WSW	2.8		0.7	4.7	97	10	Str.		☉
	Mn.	- 33	- 5	WSW	2.9	49.8	0.1	4.4	96	10			☉
July 16.	2	81 32	125 5	NW	3.5				96	10			☉, ☉ <sup>12</sup>
	4	- 32	- 5	NW	4.5	51.0	0.3	4.5	97	10	Str.		☉
	6	- 32	- 5	NW	6.0				98	10	Ci. Cust.	NNW	☉
	8	- 32	- 5	NW <sup>b</sup> N	5.4	53.2	0.4	4.6	99	10			☉ <sup>13</sup>
	10	- 32	- 5	NW	7.5		0.2	4.4	95	10	Cist.		☉
	Noon	- 32	- 5	W <sup>b</sup> N	6.0	55.2	0.1	4.4	97	10	Cist.		☉
	2	- 31	- 6	W <sup>b</sup> N	8.3		0.3	4.6	98	10	Str.		
	4	- 31	- 6	W <sup>b</sup> N	5.7	57.1	0.3	4.6	99	10	Str.		
	6	- 30	- 7	W <sup>b</sup> N	7.4		0.1	4.5	98	10	Str.		
	8	- 30	- 8	W <sup>b</sup> N	6.5	58.5	0.0	4.5	98	10	Str.		
	10	- 29	- 8	W <sup>b</sup> N	5.5		0.1	4.5	98	10	Str.		☉
	Mn.	- 29	- 9	W <sup>b</sup> N	6.3	59.8	-0.2	4.4	96	10	Str.		☉

<sup>1</sup> Detached ci. all round the horiz. especially in S. <sup>2</sup> Detached ci. in SW and S drifting northwards. <sup>3</sup> The clouds came up with great rapidity from S, at first dense, but soon only in solitary patches. <sup>4</sup> Scattered in zenith and on the W sky. <sup>5</sup> 2 strata of clouds, the innermost with rapid drift from SSW, and the uppermost slowly from WSW. <sup>6</sup> Single clouds round the horiz. Single patches drifting over, variable, sometimes 0, sometimes about 3. <sup>7</sup> Single ci. in E on the horiz. from S to E. <sup>8</sup> A bank of ci. over the SE quadrant. <sup>9</sup> A bank of ci. over the SW quadrant. <sup>10</sup> Blue sky in S, and NE. A belt from E to SW circ. 10° above the horiz. breadth of the sheet 1°. A low thick bank from E to S with blue sky underneath from E to SE. Uniformly dark blue bank over the north-sky from W to NE. <sup>11</sup> Blue sky from lane of water in S, SW, and NW. Uniformly dark blue sky on the horiz. from N to E. <sup>12</sup> Clear for scarcely 200 m. distance. <sup>13</sup> 3 p. m. ☉. ☉<sup>13</sup> ceased just after the observation. Blue sky over the NW quadrant. The lane on the port bow has opened a little, some lanes on the port beam from 300 to 400 m. distant.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 17.	2	81°28'	125°10'	W b N	7.2				97	10	Str.		≡
	4	- 27	- 11	W b N	7.2	760.0	0.8	4.5	93	0			
	6	- 27	- 11	W b N	4.5				92	0			
	8	- 26	- 12	NW b N	6.9	60.9	0.8	4.8	98	10	Str.		1
	10	- 26	- 12	NW b N	6.5		0.2	4.6	99	10	Str.		
	Noon	- 26	- 12	NW b N	3.9	62.0	0.1	4.5	98	10	Str.		
	2	- 26	- 12	NW b N	3.7		0.0	4.5	98	10	Str. Cist.		≡
	4	- 26	- 12	NW b N	3.7	63.2	-0.2	4.3	94	10	Cist. Str.		≡ <sup>o</sup>
	6	- 26	- 12	N b W	3.2		-0.5	4.3	97	10	Cist.	N	≡
	8	- 26	- 11	N b W	1.8	63.8	-0.6	4.1	94	10	Cist.		≡
	10	- 26	- 11		0		-1.0	3.9	93	10	Ci.		m
	Mn.	- 26	- 11		0	63.9	-0.4	4.0	90	0			
July 18.	2	81 26	125 11		0		-0.1	4.0	88	9			2
	4	- 26	- 11	SE b S	1.3	64.2	-0.6	3.9	89	0			
	6	- 26	- 11	SE b S	2.5		0.8	4.1	84	0			
	8	- 26	- 11	S b E	2.5	63.7	1.6	4.4	85	2°	Ci.	WNW	
	8.30	- 26	- 11				0.9	4.3	88				
	10	- 26	- 10	S b E	2.2		1.2	4.4	89		Ci.	WNW	3
	Noon	- 26	- 10	S b E	2.5	63.5	0.9	4.5	90		Cicu. Cist.		
	2	- 26	- 10	S b E	3.2		1.0	4.6	92	10°	Ci.		m
	4	- 26	- 10	SE b S	3.5	62.6	0.5	4.5	94	10	Cust.		4
	5	- 27	- 10	SE	4.6								
	6	- 27	- 10	SE	3.6		0.5	4.5	94	10	Cust.	SE	5
	8	- 27	- 10	SE	4.4	61.8	0.4	4.4	93	10	Cust.		6
	10	- 27	- 10	SE	3.6		0.4	4.5	95	10	Cust.		⊕
	Mn.	- 27	- 9	SE	4.2	60.5	0.5	4.6	96	10	Cust.	SSW	
July 19.	2	81 27	125 9	SE	4.4				95	10	Str.		7
	4	- 27	- 9	SE	5.6	58.8	0.9	4.5	93	10	Str.		8
	6	- 28	- 9	SE	5.3				96	10	Str.		9
	8	- 28	- 9	SE	5.2	57.4	0.8	4.7	97	10	Str.		10
	10	- 28	- 9	SE	7.2		1.4	4.8	95	10	Str.		11
	Noon	- 28	- 9	SE	6.1	55.8	1.6	4.8	92	10	Str.		12
	2	- 28	- 8	SE	6.0		1.1	4.7	95	10	Str.		13
	4	- 28	- 8	SE	5.1	54.4	1.0	4.7	96	10	Str.		14
	6	- 28	- 8	SE	4.0		0.7	4.7	99	10			
	8	- 29	- 8	S	2.9	54.0	0.7	4.7	98	10			
	10	- 29	- 8	SW	2.1		0.9	4.8	98	10	Cust.	SW	
	Mn.	- 29	- 8		0	53.7	0.8		95	10			
July 20.	2	81 29	125 8		0				93	10			≡
	4	- 29	- 7		0	54.3	1.0	4.6	93	10	Str.		≡
	6	- 29	- 7		0				93	10	Str.		≡
	8	- 29	- 7		0	54.7	0.6	4.5	94	10	Str.		⊕ <sup>o</sup>
	10	- 30	- 7	NE b E	2.0		0.6	4.5	95	10	Str.		
	Noon	- 30	- 7	NE b E	2.2	55.3	0.8	4.6	95	10	Str.		14
	2	- 30	- 7	NE b N	2.9		0.7	4.7	96	10	Str.		
	4	- 30	- 7	NE	2.2	55.0	0.9	4.7	96	10	Str.		
	6	- 30	- 6	NE	2.9		0.2	4.6	98	10	Str.		
	8	- 30	- 6	NE	3.2	55.1	0.2	4.6	98	10	Str.		
	10	- 30	- 6	NE	3.5		0.2	4.6	98	10	Str.		
	Mn.	- 31	- 6	NE	4.0	55.0	0.1	4.4	96	10	Str.		

<sup>1</sup> Blue sky on the horiz. uniformly from NNW to SW. The lanes as yesterday morning. <sup>2</sup> Falling fog. <sup>3</sup> High clouds. <sup>4</sup> Cicu. towards north. <sup>5</sup> Cist. on the southern sky. <sup>6</sup> ⊕ faint, as broad as the diameter of the sun, with a radius of 22° 40'. Not distinct on the underside over the horiz. Rather blue sky over the quadrant SE-SW. <sup>7</sup> 9 p.m. ⊙. <sup>8</sup> Deep blue sky from S to W. <sup>9</sup> Light in SE and SW. <sup>10</sup> Deep blue sky from S to SE. Uniformly blue sky from NW to E. <sup>11</sup> Deep blue sky from E through S to SW; also from W to N. Dark sky all round the horiz. <sup>12</sup> Blue sky from S to SE. Faint. <sup>13</sup> Faint blue sky from E to SE and in NW over about two points. <sup>14</sup> Thick on the horiz. Not clear. <sup>15</sup> Narrow blue sky from NW to NE, bluest in NE.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 21.	2	81°31'	125° 6'	NE <sup>b</sup> N	4.0		0.0	4.4	97	10	Str.		≡
	4	- 31	- 6	NE <sup>b</sup> N	3.8	754.4	-0.1	4.3	95	10	Str.		≡
	6	- 31	- 6	NE <sup>b</sup> N	4.2				94	10	Str.		
	8	- 31	- 5	NNE	5.9	55.8	-0.2	4.3	94	10	Str. Cist.	NNE	<sup>1</sup>
	10	- 31	- 5	N <sup>b</sup> E	3.8		-0.1	4.4	96	10	Str.		≡
	Noon	- 31	- 5	N <sup>b</sup> E	3.9	55.1	-0.1	4.2	92	10	Str.		<sup>2</sup>
	2	- 32	- 5	N <sup>b</sup> E	4.8		-0.1	4.1	91	10	Str.		
	4	- 32	- 3	N <sup>b</sup> E	4.2	55.2	-0.4	4.3	96	10	Cist.	WNW	
	6	- 32	- 3	N <sup>b</sup> W	4.8		-0.7	4.1	94	10	Str.		
	8	- 32	- 7	NNW	3.6	55.6	-1.6	3.7	92	10	Cicu.	NW	
	10	- 31	- 6	N	4.0		-1.9	3.6	90	10	Cicu.	NW	
	Mn.	- 31	- 6	N <sup>b</sup> W	5.6	55.9	-2.1	3.7	94	10	Str.		
July 22.	2	81 31	125 5	NW	3.4				97	10	Str.		
	4	- 30	- 5	NW	3.0	56.0	-0.4	4.2	95	10	Str.		
	6	- 30	- 4	NW <sup>b</sup> W	4.2		-0.2	4.2	92	10	Str.		
	8	- 30	- 4	W <sup>b</sup> N	3.2	56.1	0.4	4.4	93	10	Cist.		*°
	10	- 29	- 3	W <sup>b</sup> N	4.4		0.3	4.3	92	10	Cist.		
	Noon	- 29	- 3	W <sup>b</sup> N	3.5	56.3	0.6	4.5	95	10	Str.		
	2	- 29	- 2	W <sup>b</sup> N	4.5		0.6	4.6	97	10	Str.		
	4	- 28	- 1	NW <sup>b</sup> W	4.0	56.8	0.6	4.6	97	10	Cist.	NW	≡° <sup>3</sup>
	6	- 28	- 1	NW <sup>b</sup> W	3.8		0.2	4.5	97	9	Cicu. Cist.	NW	<sup>4</sup>
	8	- 28	- 1	W <sup>b</sup> N	3.7	57.9	-0.5	4.3	96	10	Cist.		
	10	- 28	- 1	NW <sup>b</sup> W	4.3		-0.2	4.4	97	10	Str.		
	Mn.	- 27	- 1	NW <sup>b</sup> W	3.4	59.2	-0.4	4.2	94	10	Str. Cu.		
July 23.	2	81 27	125 1	WNW	3.5	59.4	0.2	4.5	97	10	Str.		
	4	- 27	- 1	NW <sup>b</sup> W	3.4	60.9	-1.8	3.8	96	10	Ci.	N	<sup>5</sup>
	6	- 27	- 1	W <sup>b</sup> N	3.5				97	10	Ci.	N	
	8	- 26	- 1	W <sup>b</sup> S	3.1	60.4	0.2	4.4	95	10	Str.		<sup>6</sup>
	10	- 26	- 1	SW <sup>b</sup> W	2.7		1.6	4.7	92	10	Cicu.	W	
	Noon	- 26	- 1	SW <sup>b</sup> W	3.6	60.5	1.5	4.5	90	0			
	2	- 26	- 3	W <sup>b</sup> S	4.2		1.7	4.7	91	0			<sup>7</sup>
	4	- 26	- 5	W <sup>b</sup> S	4.7	60.3	0.9	4.5	92	1°	Cicu.	W	
	6	- 26	- 6	W	5.6		0.6	4.4	93	10°	Cicu. Str.	W	
	8	- 26	- 8	W <sup>b</sup> S	4.6	60.2	0.5	4.5	94	10	Cist.		
	10	- 26	- 9	W	4.4		0.6	4.6	96	10°	Cist.	W	≡°
	Mn.	- 25	- 11	SW <sup>b</sup> W	3.8	59.3	-1.3	3.9	95	10°	Ci.		≡°
July 24.	2	81 25	125 12	W <sup>b</sup> S	3.4				94	5	Cist.		
	4	- 25	- 13	W <sup>b</sup> S	4.2	58.4	-1.0	4.0	95	0			<sup>8</sup>
	6	- 25	- 15	W <sup>b</sup> S	3.4				94	0			
	8	- 24	- 16	WSW	4.5	57.3	-0.1	4.4	96	10°	Cist.		≡° <sup>9</sup>
	10	- 24	- 18	W <sup>b</sup> S	3.6		0.0	4.3	94	10	Cist.		<sup>10</sup>
	Noon	- 24	- 19	W <sup>b</sup> S	4.6	56.4	0.2	4.4	95	10	Cist.		<sup>11</sup>
	2	- 24	- 20	WSW	6.6		0.1	4.5	97	10	Str.		
	4	- 23	- 21	W <sup>b</sup> S	5.5	55.3	0.1	4.4	97	10	Str.		
	6	- 23	- 23	W <sup>b</sup> S	6.0		0.0	4.5	98	10	Str.		
	8	- 23	- 24	W	5.6	54.9	0.2	4.6	98	10	Str.		
	10	- 23	- 25	W <sup>b</sup> S	5.4		0.5	4.6	97	10	Str.		*° <sup>12</sup>
	Mn.	- 23	- 26	W <sup>b</sup> S	6.0	54.1	0.3	4.4	95	10	Str.		

<sup>1</sup> A rent in the clouds just after 8 a. m. showed high cicu. from SW to W. <sup>2</sup> Rather deep blue sky from SW to WSW; thence a band of dark blue with light nearest to the ice northwards to north where there was distinct blue sky. Single patches on the east side, insignificant. <sup>3</sup> Not clear horiz. <sup>4</sup> Low, drifting along the ice. <sup>5</sup> Faint coloured, broad (—) in SW. <sup>6</sup> Faint blue sky over the SW quadrant. 8.30 a. m. passing cust. apparently drifting from NW. <sup>7</sup> A few light cist. drifting to the south of us. <sup>8</sup> A few light cist. <sup>9</sup> Drifting before the wind. ≡° over the ice. <sup>10</sup> Drifting before the wind. <sup>11</sup> Drifting before the wind. <sup>12</sup> Blue sky in W.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 25.	2	81° 22'	125° 27'	W b S	5.0		0.2	4.5	97	10	Str.		*°
	4	- 22	- 29	W b S	4.9	753.5	0.3	4.6	98	10	Str.		
	6	- 22	- 30	W	5.2		0.4	4.5	94	10	Cust.		
	8	- 22	- 31	W b N	5.0	53.5	0.4	4.4	93	10	Str.	NW	
	10	- 21	- 32	W b N	4.8		0.4	4.4	94	10	Str.		
	Noon	- 21	- 34	WNW	4.8	53.5	0.7	4.5	93	10	Cust.	WNW	
	2	- 21	- 35	W b N	4.6		0.6	4.3	91	10	Cust.	W	≡ ⊙°
	4	- 21	- 37	W b N	6.2	53.5	0.4	4.3	92	10	Cust.	NW	
	6	- 20	- 39	W b N	6.4		0.1	4.5	98	10	Str.		
	8	- 20	- 41	W b N	4.4	53.6	0.1	4.4	97	10	Str.		≡ ⊙°
	10.15	- 20	- 44	W b N	4.7		0.0	4.5	98	10	Cust.	W	
	Mn.	- 19	- 46	W b N	4.2	53.4	0.0	4.3	95	10	Cist.	W	
July 26.	2	81 19	125 48	W b N	4.4				94	10	Cist.	W	
	4	- 19	- 50	WNW	6.0	53.2	-0.3	4.3	96	10	Str.		
	6	- 18	- 52	W b N	5.0				97	10	Str.		
	8	- 18	- 54	W b N	4.6	52.9	4.4	4.4	97	10	Str.		
	10	- 18	- 56	W b N	5.2		4.3	4.3	95	10	Str.		
	Noon	- 17	- 58	W b N	4.0	52.6	4.3	4.3	96	10	Str.		
	2	- 17	126 0	W b N	4.4		4.2	4.2	95	10	Cicu.	W	⊙ * <sup>1</sup>
	4	- 17	- 1	W b N	5.6	52.6	4.3	4.3	94	10	Cicu.	W	
	6	- 17	- 1	W b N	4.8		4.1	4.1	87	10	Cicu.	W	
	8	- 17	125 58	W	5.2	52.5	4.0	4.0	85	10	Cust.		⊙ * <sup>2</sup>
	10	- 17	- 55	WNW	6.0		4.4	4.4	95	10	Cust.	WNW	
	Mn.	- 16	- 52	WNW	4.8	52.7	4.4	4.4	97	10	Cust.		
July 27.	2	81 16	125 50	NW b W	6.6				93	10	Str.		
	4	- 16	- 47	NW	6.0	53.0	0.3	4.4	94	10	Str.		
	6	- 15	- 44	NW b W	5.0				96	10	Str.		
	8	- 15	- 41	NW b N	5.3	54.0	0.3	4.4	94	10	Str.		
	10	- 15	- 38	NW	5.0		0.4	4.4	92	10	Str.		
	Noon	- 14	- 36	NW	4.1	54.5			94	10	Str.		
	2	- 14	- 33	NW b N	4.0		0.5	4.6	96	10	Str.		⊙°
	4.15	- 14	- 30	NW b N	3.7	55.5	0.7	4.6	94	10	Str.		
	6	- 13	- 27	NW b N	3.8		0.4	4.4	92	8	Cust.		
	8	- 13	- 26	NW b N	4.1	56.4	-0.6	4.3	98	10	Cist.		⊙ * <sup>3</sup>
	10	- 13	- 30	NW b W	2.9		-1.2	4.2	99	10	Str.	N	
	Mn.	- 12	- 34	WNW	4.3	56.6	-0.8	4.3	98	10	Str.		
July 28.	2	81 12	125 38	NW b W	4.0		-0.8	4.3	98	10	Str.		≡
	4	- 12	- 42	NW b W	3.4	56.0	-0.5	4.1	93	10	Str.		
	6	- 12	- 46	NW b W	4.2				89	10	Str.		
	8	- 11	- 50	NW b N	3.6	56.8	-0.7	4.0	91	10	Cust.	NW	4
	10	- 11	- 54	NW	3.6		0.5	4.3	90	10	Cist.		
	Noon	- 11	- 56	N b W	4.2	57.1	0.3	4.2	89	10	Cu.	N	
	2	- 11	- 56	NNW	3.3		0.8	4.2	90	10	Str.		5
	4	- 11	- 56	NW b N	3.4	57.3	0.1	4.1	89	10	Cicu.	N	
	6	- 11	- 56	NW b N	5.4		-0.9	4.0	95	10	Cist.	NW	
	8	- 10	- 57	NW b N	3.6	57.8	-1.5	3.9	95	10°	Ci.		6
	10	- 10	- 58	NW b W	5.2		-1.6	3.7	93	6	Cicu.	N	
	Mn.	- 10	- 58	NW b W	5.8	57.5	-2.0	3.7	95	5	Cist.	NW	
July 29.	2	81 9	125 59	WNW	5.4				95	8	Cist.		
	4	- 9	126 0	NW b W	7.8	57.2	-3.0	3.5	96	8	Ci.	N	
	6	- 8	- 1	NW	6.0		-2.8	3.5	94	10	Str.		
	8	- 8	- 2	NW b W	5.6	56.9	-2.6	3.2	95	10	Cist.	NW	*°
	10	- 8	- 2	NW b W	6.8		-2.2	3.5	89	10°	Cist.	NW	
	Noon	- 7	- 3	WNW	5.0	56.4	-1.8	3.6	89	10°	Cist.		

<sup>1</sup> 9 p. m. ⊙\*. <sup>2</sup> Uniformly blue sky over the NW, SW and SE quadrants. <sup>3</sup> Clearing up from E. <sup>4</sup> Uniformly blue sky all round the horiz. except in NW, bluest in SW to S. <sup>5</sup> 11.30 a. m. \* shower. Blue sky from NW over N to NE. <sup>6</sup> ≡ on the horiz. all round. <sup>7</sup> A few ci. ≡ all round the horiz. — in SW.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 29.	2	81° 7'	126° 3'	WNW	5.7		-1.2	3.8	89	10	Cist.	WNW	*°
	4	- 7	- 3	WNW	4.1	756.1	0.0	4.0	88	10	Cicu Str.	WNW	*° <sup>1</sup>
	6	- 6	- 3	WNW	3.8		-0.7	3.6	84	10	Cicu.	WNW	
	8	- 6	- 3	WNW	4.5	55.6	-0.7	3.9	88	9	Cicu.Cist.	WNW	<sup>2</sup>
	10	- 6	- 3	NW <sup>b</sup> W	4.8		-1.3	3.8	90	10	Str.		
	Mn.	- 5	- 3	W <sup>b</sup> N	3.0	55.3	-1.1	4.0	94	10	Ci. Cust.	W	
July 30.	2	81 5	126 3	W <sup>b</sup> N	4.2				98	10	Str.		*°
	4	- 5	- 3	WNW	3.8	54.4	0.0	4.5	98	10	Str.		*°
	6	- 5	- 3	WNW	3.8				98	10	Str.		*°
	8	- 4	- 3	WNW	5.7	54.3	0.0	4.4	97	10	Str.		⊙*
	10	- 4	- 3	WNW	4.6		0.0	4.4	96	10	Str.		⊙*
	Noon	- 4	- 3	WNW	4.7	54.4	0.2	4.5	97	10	Str.		⊙*
	2	- 4	- 3	WNW	4.4		0.5	4.5	95	10°	Cist.		⊙*
	4	- 4	- 3	NW <sup>b</sup> W	4.8	55.1	0.5	4.4	93	9	Ci. Cust.	NW	⊙*
	6	- 4	- 2	NW	4.0		0.0	4.2	90	5	Cicu.	NW	<sup>3</sup>
	7.15	- 3	- 3				-1.1	3.8	91				
	8	- 3	- 4	WNW	3.9	55.8	-1.6	3.8	95	10°	Cicu. Str.	WNW	
	10	- 3	- 6	W <sup>b</sup> N	3.9		-2.2	3.6	93	10°	Cist.	W	
	Mn.	- 3	- 8	W <sup>b</sup> N	2.7	55.7	-2.6	3.4	93	10°	Ci.	W	
July 31.	2	81 3	126 11	W <sup>b</sup> N	4.0				94	10°	Ci.		
	4	- 3	- 13	W <sup>b</sup> N	2.8	56.3	-2.5	3.6	94	5	Ci.	W	<sup>4</sup>
	6	- 3	- 15	W <sup>b</sup> N	4.0				94	0	Str. Cist.		
	8	- 3	- 19	W <sup>b</sup> N	3.8	56.3	-0.3	4.2	94	10	Str.		
	10	- 3	- 16	W	3.4		1.0	4.5	91	10	Str.		
	Noon	- 3	- 13	WSW	3.7	56.6	0.8	4.5	93	10	Str.		<sup>5</sup>
	2	- 3	- 9	W <sup>b</sup> S	4.0		0.3	4.3	92	10	Str.		
	4	- 3	- 8	W <sup>b</sup> S	4.0	57.1	1.0	4.6	88	10	Cicu.	W	
	6	- 3	- 10	W <sup>b</sup> S	3.2		0.3	4.2	89	10	Cust.		
	8	- 3	- 13	SW <sup>b</sup> S	4.8	58.7	-0.9	4.7	96	10	Str.		⊙
	10	- 3	- 15	S <sup>b</sup> W	3.8		-1.3	4.8	95	10	Cust.		⊙
	Mn.	- 3	- 18	SSW	5.0	58.6	-0.2	4.3	95	10	Str.		⊙
Aug. 1.	2	81 3	126 20	S <sup>b</sup> W	2.6		-0.1	4.2	92	8	Str.		
	4	- 3	- 23	SW <sup>b</sup> S	4.8	59.4	-0.4	3.9	88	10	Cust.		
	6	- 3	- 25	SW <sup>b</sup> W	3.8		0.1	4.2	90	10	Cust.		
	8	- 3	- 28	S <sup>b</sup> W	5.4	60.4	-0.5	4.1	93	10	Str.		
	10	- 3	- 30	S <sup>b</sup> W	4.9		-0.3	4.1	93	10	Cust.		<sup>6</sup>
	Noon	- 3	- 33	S	4.5	60.7	0.3	4.2	89	10	Cust.	SW	
	2	- 3	- 35	S <sup>b</sup> W	4.5		0.5	4.5	94	10	Cust.		
	4	- 3	- 37	S <sup>b</sup> W	5.6	61.0	0.2	4.5	97	10	Str.		
	6	- 3	- 39	S <sup>b</sup> W	6.0		0.1	4.5	98	10	Str.		
	8	- 3	- 41	S <sup>b</sup> W	7.1	61.3	0.2	4.6	98	10	Str.		
	10	- 3	- 43	S <sup>b</sup> W	6.4		0.2	4.6	99	10	Str.		
	Mn.	- 3	- 45	S <sup>b</sup> W	6.6	61.3	0.4	4.5	96	10	Str.		
Aug. 2.	2	81 3	126 46	SSW	4.7				96	10	Str.		
	4	- 3	- 48	SW <sup>b</sup> S	4.1	61.5	1.0	4.7	96	10°	Str.	W	
	6	- 3	- 50	SW	4.3				96	10	Str.		
	8	- 4	- 52	SSW	3.3	61.6	1.4	4.8	94	10	Str. Cust.	W	
	10	- 4	- 54	SSW	3.4		1.2	4.7	95	10	Str.		
	Noon	- 4	- 56	SW <sup>b</sup> S	2.9	61.8	1.3	4.7	93	10	Cust.	W	
	2	- 4	- 58	SW <sup>b</sup> S	4.0		1.5	4.7	93	10	Cust.		
	4	- 4	127 0	SW	3.4	61.8	1.6	4.8	93	10	Cust.	SW	

<sup>1</sup> 4.30 p. m. ci. NNE, amount 6°. Cirrus-belts converging towards WNW and ESE. <sup>2</sup> Uniformly blue sky on the horiz. from W over N to E. <sup>3</sup> Drifting by. <sup>4</sup> Blue sky in W. <sup>5</sup> A narrow strip of blue sky all round the horiz., above it blue sky in E and NW. <sup>6</sup> Light from ice in SE. Blue sky in NW.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 2.	6	81° 4'	127° 2'	SW <sup>b</sup> W	3.4		1.4	4.7	94	10	Cu.	SW	
	8	- 4	- 4	WSW	3.7	762.2	1.1	4.7	95	8	Cu.	W	
	10	- 4	- 6	WSW	2.6		1.4	4.8	94	1	Cu.		<sup>1</sup>
	Mn.	- 4	- 8	W <sup>b</sup> S	2.3	62.5	-0.1	4.3	94	4	Ci.	NW	<sup>2</sup>
Aug. 3.	2	81 5	127 9	SW <sup>b</sup> W	2.3				96	5	Cicu.		<sup>3</sup>
	4	- 5	- 11	SW <sup>b</sup> W	3.5	62.9	0.0	4.3	95	6	Cicu.		
	6	- 5	- 13	SW <sup>b</sup> W	3.4				94	8	Cust.		
	8	- 5	- 15	SW <sup>b</sup> W	3.8	62.7	1.3	4.7	93	10	Cust.	NW	<sup>4</sup>
	10	- 5	- 17	SW <sup>b</sup> W	3.0		1.5	4.7	93	10	Cust.	NW	<sup>5</sup>
	Noon	- 5	- 18	WSW	2.1	62.6	2.4	4.8	88	10	Cicu.Str.Cust.	NW	
	2	- 5	- 18	WSW	3.0		2.5	4.8	88	10	Cust.	NW	
	4	- 5	- 19	SW <sup>b</sup> W	2.0	62.9	2.5	4.8	87	10	Cust.		
	6	- 5	- 19	SW	2.0		2.5	4.7	85	10	Cu.	NW	
	8	- 5	- 20	SW	2.7	62.9	2.2	4.7	88	5	Ci.		<sup>6</sup>
	10	- 5	- 22	SW	2.2		1.5	4.6	91	2	Ci.	NW	
	Mn.	- 6	- 24	SW	2.9	62.7	1.6	4.6	91	1	Ci.		
Aug. 4.	2	81 6	127 26	S <sup>b</sup> W	2.7		1.1	4.5	90	1	Ci.	N	
	4	- 6	- 28	SW	2.8	62.4	1.4	4.6	91	2	Ci.	NE	
	6	- 6	- 30	SW	3.0				92	0			
	8	- 6	- 32	SW	1.9	63.1	2.3	4.9	90	0			
	8.30	- 6	- 33				2.6	4.8	87				
	10	- 6	- 31	SW <sup>b</sup> S	2.5		2.4	4.7	86	0			
	Noon	- 6	- 28	SW <sup>b</sup> S	2.0	63.5	2.9	4.8	85	0			
	2	- 6	- 25	SSW	2.3		2.2	4.7	87	4	Cicu.		<sup>7</sup>
	4	- 6	- 22	SW <sup>b</sup> W	2.1	63.9	2.1	4.8	89	0			<sup>8</sup>
	6	- 6	- 23		0		1.9	4.7	90		Ci.	NW	<sup>9</sup>
	8	- 7	- 23	SSW	2.5	64.5	0.8	4.6	94	10	Cicu.		<sup>10</sup>
	10	- 7	- 24	SW	2.6		0.6	4.6	96	10	Cicu.		<sup>11</sup>
	Mn.	- 7	- 25	SSW	2.1	64.7	0.2	4.5	96	5	Cicu.	W	
Aug. 5.	2	81 7	127 25	S <sup>b</sup> E	1.8				96	8	Cicu.	W	<sup>12</sup>
	4	- 7	- 26	S <sup>b</sup> E	2.4	64.5	0.4	4.5	97	5	Cicu.		
	6	- 7	- 27	S <sup>b</sup> W	2.8		1.1	4.7	94	8	Cicu.Str.		
	8	- 7	- 27	S <sup>b</sup> E	1.3	64.9	1.3	4.7	92	10°	Ci.	SW	<sup>13</sup>
	8.15	- 7	- 27				1.3	4.7	92				
	10	- 7	- 28	S	2.5		1.4	4.6	91	1			<sup>14</sup>
	Noon	- 7	- 29	S <sup>b</sup> W	2.3	64.8	2.4	4.8	87	0			
	2	- 7	- 29	S <sup>b</sup> W	2.5		1.7	4.6	90	0			
	4	- 8	- 30	SSW	1.5	64.6	2.1	4.6	86	0			
	6	- 8	- 30	SSW	1.3		2.0	4.5	86	0			
	8	- 8	- 31	SW <sup>b</sup> S	1.2	64.8	1.2	4.4	89	0			
	10.15	- 8	- 32	SW <sup>b</sup> W	2.2		-0.1	4.2	92	0			
	Mn.	- 8	- 32	W <sup>b</sup> S	2.6	64.9	0.0	4.3	94	0			
Aug. 6.	2	81 8	127 33		0				88	0			
	4	- 8	- 34		0	64.6	0.2	4.1	89	0			
	6	- 8	- 34	W <sup>b</sup> N	1.4				87	0			
	8	- 8	- 35	W <sup>b</sup> N	1.7	64.8	2.6	4.8	86				<sup>15</sup>
	8.15	- 8	- 35					4.4	85				
	10	- 8	- 34		0		2.2	4.6	86	0			
	Noon	- 8	- 32		0	64.8	2.6	4.7	84	0			

<sup>1</sup> Some patches in E. <sup>2</sup> Only on the northern sky. <sup>3</sup> Clear on the southern and western skies on the horiz. <sup>4</sup> Cust. like the figures on a tinned iron plate that has been corroded with a diluted acid. The cloud-covering rather peculiar. Apparently high cicu. on a background of str. which produced fleecy clouds of a dark colour. In SE clear on the horiz. whither the clouds drifted in scattered fleecy rows. <sup>5</sup> 10.30—11.45 a.m. the sun-screens taken away. <sup>6</sup> Spread over the whole sky. <sup>7</sup> Over the horiz. in the NE quadrant, and scattered on the E sky. <sup>8</sup> Some cicu. in NE. <sup>9</sup> Fleecy clouds and patches spread over the whole sky, most on the W sky. <sup>10</sup> Patches all over the sky. <sup>11</sup> Patches all over the sky. <sup>12</sup> Drift of clouds almost imperceptible from W. <sup>13</sup> Low ci. Faint blue sky in NNE. <sup>14</sup> Some ci. over the W sky. <sup>15</sup> A single faint bow of ci. in zenith.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 6.	2	81° 8'	127° 30'	W b S	1.5		2.6	4.6	83	0			
	4	- 8	- 28	W b N	1.4	765.0	2.6	4.7	84	0			
	6	- 8	- 28	W b S	1.6		1.6	4.4	86	0			
	8	- 8	- 28		0	64.8	0.9	4.3	88	0			
	10	- 8	- 28	N b E	1.4		1.0	4.3	88	0			
	11.15	- 8	- 28				-0.1	4.1	90				
	Mn.	- 8	- 27		0	64.4	-0.1	4.0	89	0			
Aug. 7.	2	81 8	127 27		0				90	0			
	4	- 8	- 27		0	64.3	-0.8	3.9	91				≡ <sup>1</sup>
	6	- 8	- 27	NW b N	1.5				92				≡
	8	- 8	- 27	NNE	2.8	64.1	-0.3	4.3	97	10	Cist.		≡
	8.15	- 8	- 27				-0.1	4.5	98				≡
	10	- 8	- 27	NE b N	2.2		0.2	4.5	96	10	Cist.		≡
	Noon	- 8	- 27	N	2.5	63.5	0.3	4.4	95	10	Str.		≡ <sup>2</sup>
	2	- 8	- 27	N b E	2.5		0.0	4.4	97	10	Str.		≡
	4	- 8	- 26	N	4.4	63.3	0.2	4.5	97	10	Str.		≡
	6	- 8	- 26	NNE	3.4		0.0	4.4	96	10	Str.		≡
	8	- 8	- 26	N b E	4.2	63.5	-0.1	4.3	95	10	Str.		≡
	10	- 7	- 26	N	4.4		-0.4	4.3	96	10	Str.		2
	Mn.	- 7	- 26	N b E	4.8	63.5	-0.6	4.2	97	10	Str.		2
Aug. 8.	2	81 7	127 26	N b E	5.0		-0.3	4.3	97	10			≡
	4	- 7	- 26	NW b N	4.8	63.7	-1.2	4.1	98	7	Ci.	NW	≡
	6	- 7	- 25	NW	2.5		-0.1	4.4	96	10	Cicu.	NW	3
	8	- 7	- 25	NW	2.5	63.8	-0.1	4.4	97	9	Cu.	N	≡
	8.15	- 7	- 25				0.0	4.5	98	10			≡
	10	- 7	- 25	NW	3.9		0.4	4.5	96	10	Cust.		4
	Noon	- 7	- 25	N b W	3.9	64.3	1.0	4.7	94	10	Ci.		≡
	2	- 7	- 24	N b W	3.7		0.6	4.7	98	10	Cist.		≡
	4	- 7	- 24	NW b N	2.8	64.6	0.5	4.6	96	10	Cust.	N	≡
	6	- 7	- 23	NW b W	2.5		0.5	4.6	96	10	Str.		≡
	8	- 7	- 23	WNW	2.4	65.4	0.6	4.7	97	10	Str.		5
	10	- 6	- 22	W b N	2.8		0.6	4.8	98	10	Str.		≡
	Mn.	- 6	- 22	W b N	2.5	65.3	0.4	4.5	96	10	Str.		≡
Aug. 9.	2	81 6	127 21	W b N	2.2				97	10	Str.		≡
	4	- 6	- 21	W b N	2.8	65.4	0.5	4.5	96	10	Str.		≡
	6	- 6	- 20	W	2.6				91	10	Str.		≡
	8	- 6	- 20	W b N	4.6	64.9	0.0	4.5	98	10	Str.		≡
	10	- 6	- 19	W b N	5.3		0.1	4.5	98	10	Cist.		≡
	Noon	- 5	- 19	W b N	3.8	64.6	0.2	4.5	97	10	Cist.		≡
	2	- 5	- 19	W b N	4.5		0.2	4.6	98	10	Cist.		≡
	4	- 5	- 19	W b N	3.0	64.8	0.3	4.6	98	10	Cist.		≡
	6	- 5	- 20	W b N	3.3		0.2	4.6	98	10	Str.		≡
	8	- 5	- 21	W b N	2.0	65.4	0.5	4.7	98	10	Str.		≡
	10	- 5	- 23	W b S	3.2		0.3	4.6	98	10	Cist.		≡
Aug. 10.	Mn.	- 4	- 24	W	3.5	65.2	0.0	4.4	97				≡
	2	81 4	127 25	W b S	3.0				97				≡
	4	- 4	- 27	W	4.4	65.4	-0.3	4.3	97	10			≡
	6	- 4	- 28	W b S	4.3				97	10	Str.		≡
	8	- 4	- 29	W b S	3.4	66.4	0.2	4.6	98	10	Cist.		≡
	10	- 4	- 31	W	2.2	66.9	0.5	4.6	97	10	Cist.		≡
	Noon	- 4	- 32	W	2.5		1.8	4.7	90	0			6
	4	- 4	- 34	W b S	2.4	67.4	1.9	4.5	87	0			≡
	6	- 4	- 36	W b S	2.6		1.8	4.6	87	0			≡

<sup>1</sup> Bank of fog in SW opposite the sun. <sup>2</sup> Uniformly blue sky from E to S. <sup>3</sup> A little while after the obs. there was cloud only on the horiz. <sup>4</sup> Ci. like a veil. <sup>5</sup> Uniformly blue sky all over the northern horiz. from E to W. <sup>6</sup> Sharply defined low, grey-blue bank of clouds in the NE quadrant.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 10.	8.20	81°4'	127°37'	SSW	2.1	768.0	0.2	3.9	87	0			
	9	- 4	- 38				0.1	4.0	89	0			
	10.15	- 4	- 39	SSW	1.7		0.1	4.2	92				
	Noon	- 4	- 40	SSW	3.6	67.9	0.1	4.1	91	0			
Aug. 11.	2	81 4	127 41	SW	3.2				92	0			
	4	- 4	- 42	SW <sup>b</sup> S	2.7	67.8	0.3	4.1	93	0			1
	6	- 5	- 44	SW	3.5				93	0			
	8	- 5	- 45	SW <sup>b</sup> S	3.5	67.7	1.6	3.7	92	0			
	10	- 5	- 46	SSW	4.3		1.7	3.7	92	0			
	Noon	- 5	- 47	SW	5.1	67.2	0.8	4.2	97	10	Cist.		
	2	- 5	- 48	SW	5.4		0.5	4.3	99	10	Cist.	SW	
	4	- 5	- 50	SW	3.8	66.6	0.4	4.4	98	10	Cist.	SW	
	6	- 5	- 50	SW	5.0		0.0	4.3	95	10	Cist.	SW	
	8	- 5	- 50	SW	3.5	66.9	-0.3	4.4	99	10	Cist.	SW	
	10	- 5	- 51	SW	3.4		-1.0	4.1	97	10°	Cist.		
	Mn.	- 4	- 51	SW <sup>b</sup> S	4.0	66.7	-1.4	4.1	98	10	Str.		
Aug. 12.	2	81 4	127 51	SW <sup>b</sup> S	2.6				99	10	Str.		
	4	- 4	- 51	SW <sup>b</sup> S	2.5	66.4	-0.9	4.2	97	8			
	6	- 4	- 52	SW <sup>b</sup> S	2.7		-0.5	4.2	95				
	8	- 4	- 52	WSW	2.4	66.3	0.2	4.2	91	0			
	8.15	- 4	- 52	W <sup>b</sup> S			0.4	4.3	90				
	10	- 4	- 52	WSW	2.5		0.4	4.3	90	0			
	Noon	- 4	- 52	WSW	2.4	65.9	1.4	4.4	87	5	Ci.	N	
	2	- 4	- 52	SW <sup>b</sup> W	2.8		1.0	4.3	88	9	Cu.	NW	
	4	- 4	- 53	WSW	2.5	65.7	1.0	4.5	90	10	Cu.	NW	
	6	- 4	- 53	WSW	2.6		2.0	4.4	85	10	Cu.	NW	
	8	- 4	- 53	W	1.6	65.4	0.6	4.4	92	10°	Cist.	W	
	10	- 4	- 53		0		0.2	4.3	93	10	Cu.	NW	
	Mn.	- 4	- 54		0	64.7	0.3	4.3	92	8	Cicu.		
Aug. 13.	2	81 4	127 54	W	1.4				93	1	Cicu.		
	4	- 4	- 54		0	64.4	-0.3	4.1	92	0			
	6	- 4	- 54		0				92	10			
	8	- 4	- 55	N <sup>b</sup> W	1.4	64.0	1.0	4.1	83	10	Cist.		
	8.15	- 4	- 55				0.9	4.4	89				
	10	- 4	- 55		0		1.0	4.4	89	10	Cist.		
	Noon	- 4	- 55		0	63.8	1.4	4.4	87	10	Cist.		
	2	- 4	- 55	NE <sup>b</sup> N	1.8		0.3	4.3	93	10	Cist.		
	4	- 5	- 55	NE <sup>b</sup> E	2.3	63.6			94	10	Str.		
	6	- 5	- 56	NE <sup>b</sup> E	1.4		0.7	4.7	96	10	Str.		
	8	- 5	- 56	E <sup>b</sup> N	2.4	63.7	0.1	4.5	98	10	Str.		
	10.15	- 5	- 56	NE <sup>b</sup> E	2.2		0.0	4.5	98	10	Str.		
	Mn.	- 5	- 56	NNE	2.2	64.2	-0.2	4.4	97	10	Str.		
Aug. 14.	2	81 5	127 57	NE <sup>b</sup> E	3.0				96		Str.		
	4	- 5	- 57	NE <sup>b</sup> E	3.6	64.3	-0.8	4.2	96		Str.		
	6	- 5	- 57	NE <sup>b</sup> E	4.8				94	10	Cust.		
	8	- 6	- 57	E	2.7	64.6	-1.2	3.9	92	10	Cicu. Str.	NE	
	10	- 6	- 57	E	3.3		-0.2	3.8	85	10	Cicu. Str.	NE	
	Noon	- 6	- 57	E <sup>b</sup> S	3.2	64.8	-0.4	3.9	88	9	Cicu. Str.	E	
	2	- 6	- 56	ESE	3.2		-0.3	3.8	86	10	Cicu. Str.	E	
	4	- 6	- 56	E <sup>b</sup> S	1.8	65.2	0.0	4.1	89	10	Str.		

<sup>1</sup> This morning there was ice 3 or 4 mm. thick on pools on the port bow. <sup>2</sup> 9 p.m. coloured —. <sup>3</sup> — opposite the sun. <sup>4</sup> Fog-bow on the southern sky opposite the sun. <sup>5</sup> Fog-bow in SW opposite the sun. <sup>6</sup> Ice about 4 mm. thick on the pool on the port bow. <sup>7</sup> The air like a broad blue band above the horiz. on the eastern sky from N to S. <sup>8</sup> Ice on the pool from 1.5 to 2 mm. thick. <sup>9</sup> The sun shining on the thermometer-screen.



1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 14.	6	81° 6'	127° 55'	E <sup>b</sup> S	2.0		0.0	4.0	88	10	Cust.		
	8	- 6	- 54	SE	1.8	765.9	-0.6	4.0	91	10	Cust.		
	10	- 6	- 53	E <sup>b</sup> S	2.2		-0.6	4.1	93	10	Cust.		
	Mn.	- 6	- 52	E <sup>b</sup> S	1.8	65.2	-0.2	4.3	95	10	Cust.		
Aug. 15.	2	81 6	127 51	E <sup>b</sup> S	2.0		-0.2	4.4	96	10	Str.		
	4	- 6	- 51	SE <sup>b</sup> E	2.8	66.6	-0.6	4.2	97		Str.	SE	☉
	6	- 7	- 50		0		0.0	4.3	94	10	Cu.	SE	☉
	8	- 7	- 49	SE <sup>b</sup> S	1.6	66.6	0.5	4.3	91	10	Cist.	SE	☉
	10	- 7	- 50	SE <sup>b</sup> S	1.7		-0.2	4.3	94	10	Cust.		☉
	Noon	- 7	- 50	SW <sup>b</sup> S	1.8	65.9	-0.3	4.0	89	10	Str.		☉
	2	- 7	- 51	SW <sup>b</sup> S	2.5		0.5	4.3	90	10	Cust.	SW	☉
	4	- 7	- 51	SSW	2.3	65.5	0.8	4.4	91	10	Cust.	SW	☉
	6	- 6	- 52	SSW	2.5		0.2	4.5	96	10	Cu.	SW	☉
	8	- 6	- 52	SSW	3.4	64.6	0.0	4.4	96	10	Cust.	SW	☉
	10	- 6	- 53	SW <sup>b</sup> S	3.7		-1.1	4.2	98	10°	Cist.	NW	☉
	11	- 6	- 53				-1.2						☉
	Mn.	- 6	- 53	SSW	4.0	63.3	-1.1	4.1	96	10	Str.		☉
Aug. 16.	2	81 6	127 53	SW <sup>b</sup> W	3.3				98	10	Str.		☉
	4	- 6	- 54	SW <sup>b</sup> S	5.1	62.1	0.0	4.5	98	10	Str.		☉
	6	- 6	- 54	SW <sup>b</sup> S	4.6				94	10	Str.		☉
	8	- 6	- 55	SW <sup>b</sup> W	4.4	61.4	0.0	4.4	96	10	Str.		☉
	10	- 6	- 55	SW <sup>b</sup> W	5.1		0.0	4.4	97	10	Str.		☉
	Noon	- 6	- 56	WSW	5.4	60.4	0.0	4.5	98	10	Str.		☉
	2	- 6	- 56	WSW	4.6		0.2	4.5	97	10	Str.		☉
	4	- 6	- 57	WSW	3.1	60.0	0.4	4.5	97	10	Str.		☉
	6	- 6	- 57	W <sup>b</sup> S	3.0		0.2	4.5	97	10	Str.		☉
	9	- 6	- 57	W <sup>b</sup> N	2.4	59.8	0.1	4.4	97	10	Str.		☉
	10	- 5	- 58	W	2.1		0.2	4.5	97	10	Str.		☉
	Mn.	- 5	- 58	W <sup>b</sup> N	2.2	59.8	0.2	4.5	97	10	Str.		☉
Aug. 17.	2	81 5	127 59	W <sup>b</sup> N	2.2				97	10	Str.		☉
	4	- 5	- 59	W <sup>b</sup> N	3.0	61.5	0.2	4.6	98	10	Str.		☉
	6	- 5	128 0	W <sup>b</sup> N	1.8				98	10	Str.		☉
	8	- 5	- 0	NW <sup>b</sup> W	2.1	61.3	0.7	4.7	98	10	Cu. Cist.		☉
	10	- 5	- 1	NW <sup>b</sup> W	1.7		0.9	4.7	96	10	Cust.		☉
	Noon	- 6	- 1	NW <sup>b</sup> W	1.7	61.9	0.7	4.7	97	10	Cicu.		☉
	2	- 6	- 2	W <sup>b</sup> N	1.8		1.0	4.6	93	10	Cicu. Str.	NW	☉
	4	- 6	- 3		0	62.2	1.6	4.7	92	10	Cust.		☉
	6	- 6	- 3	W <sup>b</sup> S	1.7		0.8	4.6	95	10	Cust.	NW	☉
	8	- 6	- 4	SW <sup>b</sup> W	2.6	61.9	0.6	4.6	97	10	Str.		☉
	10	- 6	- 5	WSW	2.1		0.6	4.6	97	10	Str.		☉
Aug. 18.	Mn.	- 6	- 6	W <sup>b</sup> S	2.6	61.7	0.4	4.5	97	10	Str.		☉
	2	81 5	128 7	W <sup>b</sup> N	3.2		0.3	4.5	97	10	Str.		☉
	4	- 5	- 7	W <sup>b</sup> N	3.1	62.3	-0.4	4.3	97	10	Str.		☉
	6	- 5	- 8	W <sup>b</sup> S	3.5				97	10	Str.		☉
	8	- 5	- 9	W <sup>b</sup> N	2.4	61.9	0.6	4.7	98	10	Str.		☉
	10	- 5	- 10	W <sup>b</sup> N	2.4		0.7	4.7	98	10	Cist.		☉
	Noon	- 5	- 9	NW <sup>b</sup> W	1.7	62.5	0.1	4.5	98	9°	Cicu. Cist.	NW NW	☉

<sup>1</sup> Drifting rapidly from SE. <sup>2</sup> Could not make observation, cu. near the horiz. <sup>3</sup> Cu. on the horiz. Blue sky in N to W. <sup>4</sup> Cu. on the horiz. Blue sky in SW-S, and faint blue sky over the N quadrant from NE to NW. 2.30 p.m. clearing. <sup>5</sup> Cu. on the horiz. Blue sky all round the horiz. largest and most intense in N to NW. <sup>6</sup> 10.30 a.m. ☉. <sup>7</sup> 7.45 a.m. ☉. A lower layer from N, an upper layer from W. Impossible to distinguish the exact point of the compass. Those from north tolerably near N, those from west possibly from the southern side of W.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 18.	2	81°5'	128°8'	NW <sup>b</sup> W	2.4		0.4	4.5	97	10	Ci. Cust.	NW	1 * <sup>o</sup> 2 ● <sup>2</sup>
	4	- 5	- 7		0	763.1	0.3	4.4	94	10	Ci. Cust.	NW	
	6	- 5	- 7	E <sup>b</sup> S	1.7		0.0	4.3	95	10	Cust.		
	8	- 5	- 7	SE	2.3	63.1	0.0	4.4	97	10	Cust.		
	10	- 5	- 7	SE <sup>b</sup> S	2.2		0.1	4.5	98	10	Str.		
	Mn.	- 5	- 7	SE	4.2	62.7	0.3	4.5	97	10	Str.		
Aug. 19.	2	81 5	128 7	SSE	2.8				97	10	Str.		● 3             <sup>4</sup>       <sup>5</sup> 
	4	- 5	- 7		0	62.6	0.6	4.6	96	10	Str.		
	6	- 5	- 7		0		1.2	4.6	93	10	Str.		
	8	- 5	- 7	NE <sup>b</sup> E	2.1	62.8	0.9	4.5	91	10	Cist.		
	10	- 5	- 7	NE <sup>b</sup> E	1.8		0.4	4.3	90	6°	Ci. Cist.	SW	
	Noon	- 5	- 7	E <sup>b</sup> S	2.0	63.5	0.3	4.1	87	10°	Cist.		
	2	- 5	- 7	SE	2.0		0.0	4.3	92	10	Cicu. Str.		
	4	- 5	- 7		0	63.8	-0.1	4.0	89	10°	Cist.		
	6	- 5	- 7		0		-0.7	3.9	91	10°	Cist.		
	8	- 5	- 7		0	64.0	-1.6	3.7	93	10	Cicu.		
	10	- 5	- 7		0		-1.4	3.9	95	10	Cust.		
	Mn.	- 5	- 7		0	63.2	-1.0	4.0	95	10	Str.		
Aug. 20.	2	81 5	128 6	SE <sup>b</sup> S	1.4				96	10	Str.		   <sup>o</sup>       <sup>o</sup>
	4	- 5	- 6	SE	1.8	62.3	-0.1	4.4	96	10	Str.		
	6	- 5	- 6		0				96	10	Str.		
	8	- 5	- 6		0	60.8	0.3	4.4	95	10	Str.		
	10	- 5	- 6		0		0.9	4.6	94	10	Str.		
	Noon	- 5	- 6		0	59.6	1.2	4.7	94	10	Str.		
	2	- 5	- 6	N <sup>b</sup> E	1.4		0.3	4.4	95	10	Cicu. Str.	W	
	4	- 5	- 6	W <sup>b</sup> N	2.6	58.7	0.0	4.2	91	10	Cust.	W	
	6	- 5	- 6	NW <sup>b</sup> N	2.2		-1.2	3.9	93	10	Cicu.		
	8	- 4	- 6	N <sup>b</sup> W	2.2	58.3	-2.0	3.6	92	10	Cust.	N	
	10	- 4	- 6	NW <sup>b</sup> W	1.5		-3.6	3.3	94	10°	Cist.		
	Mn.	- 4	- 6	NW <sup>b</sup> W	1.8	57.6	-4.0	3.2	96	0			
Aug. 21.	2	81 4	128 6	NW <sup>b</sup> W	2.6				93	5	Cicu.		7 8 * * <sup>*</sup> * * <sup>o</sup> 9 10
	4	- 4	- 6	NW <sup>b</sup> W	3.0	56.8	-3.3	3.4	95	3	Ci.	NW	
	6	- 4	- 6	NW <sup>b</sup> W	3.4				90	3	Ci.	NW	
	8	- 4	- 6	NW	4.0	56.3	-2.1	3.4	88	9	Cicu.	NW	
	10	- 4	- 6	WNW	4.3		-1.3	3.4	88		Ci.	NW	
	Noon	- 4	- 5	NW <sup>b</sup> W	4.1	55.7	-1.0	3.7	86	7	Ci.	NW	
	2	- 4	- 5	WNW	4.5		-1.1	3.7	87	10	Cicu.	NW	
	5	- 4	- 5	WNW	5.2	55.5	-0.1	4.2	93	10	Cicu.	NW	
	6	- 4	- 5	NW <sup>b</sup> W	4.5		-0.2	4.1	91	9	Cist.	NW	
	8	- 4	- 4	WNW	4.8	54.7	0.0	4.2	91	10	Str.		
	10	- 3	- 4	W <sup>b</sup> N	4.4		0.2	4.5	96	10	Str.		
	Mn.	- 3	- 4	W <sup>b</sup> N	3.4	53.4	0.2	4.5	96	10	Str.		
Aug. 22.	2	81 3	128 3	W <sup>b</sup> N	4.0		0.2	4.4	95	10	Snow. sk.		* * * * <sup>o</sup> 9 10
	4	- 3	- 3	WNW	4.0	52.3	0.2	4.4	95	10	Str.		
	6	- 2	- 3	NW <sup>b</sup> W	4.5		0.0	4.4	96	10	Cist.		
	8	- 2	- 2	NW <sup>b</sup> N	3.7	52.1	0.2	4.6	98	10	Str.	NW	
	10	- 2	- 2	N <sup>b</sup> W	4.1		0.1	4.3	95	10	Cicu.	N	
	Noon	- 2	- 1	NW <sup>b</sup> N	4.5	52.2	-0.7	3.9	91	10	Cust.	N	
	2	- 2	- 1	N	3.2		-0.8	3.8	88	10	Cust.	N	
	4	- 2	- 1	N	2.6	52.7	-0.8	3.7	86	9	Str.		

<sup>1</sup> A little before the observation clear in zenith, on both sides, most marked in the western sky. High fleecy ci. slowly drifting from W. <sup>2</sup> Clearing up from E. <sup>3</sup> Bow of ci. in SW. Cist. over the ice. <sup>4</sup> Low over the ice. <sup>5</sup> (half). <sup>6</sup> in E. <sup>7</sup> Some ci-bows in SW. <sup>8</sup> or rather a wreath of light round the sun of a rather intense yellow colour. <sup>9</sup> A few ci. in NE. Ice on the pool on the port bow about 12 mm. thick. <sup>10</sup> Thin cloud all over the sky. <sup>11</sup> A little blue sky in NW. <sup>12</sup> Cu. on the horiz. Blue sky over the horiz. in NE, strip of light beneath.



1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 26.	8	81° 1'	127° 30'	NW	4.5	759.4	-6.0	2.5	88	3	Ci.		<sup>1</sup>
	10	- 0	- 30	NNW	5.5		-5.0	2.7	88	10	Str.		* <sup>o</sup>
	Noon	- 0	- 31	NNW	4.4	59.3	-5.0	2.7	89	10	Str.		
Aug. 27.	2	80 59	127 31	NNW	6.4				86	8	Cist.		*
	4	- 59	- 31	NW <sup>b</sup> N	6.3	59.0	-3.5	3.3	93	10	Cust.		
	6	- 59	- 32	NW <sup>b</sup> N	9.4		-3.0	3.2	87	10	Str.		* <sup>2</sup>
	8	- 58	- 32	NW <sup>b</sup> N	8.3	58.6	-3.0	3.3	90	10	Snow.sk.		
	10	- 58	- 33	NW <sup>b</sup> N	8.4		-3.0	3.2	88	10	Str.		
	Noon	- 58	- 33	NW <sup>b</sup> W	9.7	58.2	-3.0	3.2	88	10	Str.		
	2	- 57	- 34	NW	8.9		-2.7	3.3	88	10	Str.		* <sup>2</sup>
	4	- 57	- 34	NW	7.6	58.4	-2.6	3.4	91	10	Cicu.	N	* <sup>2</sup>
	6	- 56	- 35	NW <sup>b</sup> W	6.8		-2.7	3.3	89	10	Cist.	NW	* <sup>2</sup>
	8	- 56	- 35	WNW	8.4	58.2	-2.9	3.4	92	10	Str.		
	10	- 56	- 35	WNW	6.6		-3.2	3.2	90	10	Str.		
	Mn.	- 55	- 36	WNW	6.2	57.2	-3.1	3.0	92	10	Str.		* <sup>2</sup>
Aug. 28.	2	80 55	127 36	WNW	6.2				91	10	Str.		* <sup>2</sup>
	4	- 54	- 37	W <sup>b</sup> N	5.2	56.4	-3.8	3.0	90	9	Str.		
	6	- 54	- 37	WSW	7.2				89	10	Str.		<sup>2</sup> <sup>3</sup>
	8	- 54	- 38	WSW	6.0	56.1	-4.1	2.9	87	5	Ci.	W	
	10	- 54	- 38	SW <sup>b</sup> W	5.0		-4.6	2.9	90	10	Ci. Cust.		
	Noon	- 54	- 38	SW	4.2	56.2	-4.1	2.8	84	10°	Cist.		* <sup>o</sup>
	2	- 54	- 35	SW <sup>b</sup> S	4.4		-3.6	3.0	87	10°	Ci.	W	<sup>4</sup>
	4	- 55	- 32	SW <sup>b</sup> S	3.4	56.2	-3.6	2.9	84	10	Cu.	SW	
	6	- 55	- 29	S	2.9		-5.7	2.7	89	10	Cicu.	SW	
	8	- 56	- 27	S	2.5	56.4	-6.9	2.4	90	10	Cicu.	W	
	10	- 57	- 24	E <sup>b</sup> S	2.2		-7.2	2.2	88	10	Cicu.	W	
	Mn.	- 57	- 21	E <sup>b</sup> S	2.5	55.7	-6.0	2.6	92	10	Str.	S	* <sup>o</sup>
Aug. 29.	2	80 58	127 18	ENE	4.0		-4.7	3.0	92	10	Str.		* <sup>o</sup>
	4	- 58	- 15	SE <sup>b</sup> E	3.0	54.5	-1.9	3.8	96	10	Str.		
	6	- 59	- 12	SE	6.0		-1.2	4.0	95	10	Cust.	S	* <sup>o</sup>
	8	- 59	- 10	SE	9.2	54.1	-0.8	4.1	95	10	Str.		* <sup>2</sup>
	10	81 0	- 7	SE <sup>b</sup> E	8.7		-1.3	3.8	93	10	Str.		*
	Noon	- 1	- 4	SE <sup>b</sup> E	8.5	54.3	-2.2	3.6	91	10	Str.		*
	2	- 1	126 59	ESE	7.3		-2.4	3.4	90	10	Str.		* <sup>2</sup>
	4	- 2	- 58	ESE	9.4	54.1	-2.7	3.4	91	10	Str.		* <sup>2</sup>
	6	- 2	- 56	ESE	8.6		-2.7	3.4	92	10	Str.		* <sup>2</sup>
	8	- 3	- 53	ESE	9.0	54.3	-2.9	3.4	92	10	Str.		* <sup>2</sup>
	10	- 4	- 50	E <sup>b</sup> S	10.1		-2.8	3.4	91	10	Str.		* <sup>2</sup>
	Mn.	- 4	- 47	E <sup>b</sup> S	11.0	54.5	-4.5	2.9	90	10	Str.		* <sup>2</sup>
Aug. 30.	2	81 5	126 44	E <sup>b</sup> S	11.4				89	10	Str.		* <sup>2</sup>
	4	- 5	- 41	E <sup>b</sup> S	10.1	54.6	-6.7	2.7	89	10	Str.		
	6	- 6	- 39	E <sup>b</sup> S	11.5				87	10	Str.		
	8	- 6	- 36	E <sup>b</sup> N	9.3	55.0	-6.6	2.4	87	10	Str.		
	10	- 7	- 33	E	10.2		-6.1	2.3	83	10	Cust.		
	Noon	- 8	- 30	E	9.8	55.4	-6.0	2.4	83	10	Cust.		
	2	- 8	- 27	E <sup>b</sup> N	7.6		-6.0	2.5	87	10	Ci. Cust.	E	<sup>5</sup>
	4	- 8	- 24	E <sup>b</sup> N	8.2	56.2	-6.4	2.4	87	10°	Cist. Str.	E	<sup>6</sup>
	6	- 8	- 21	E <sup>b</sup> N	6.5		-6.6	2.4	87	10	Str.		
	8	- 8	- 18	E <sup>b</sup> N	6.5	56.8	-6.6	2.3	87	10	Str.		
	10	- 8	- 16	ENE	7.4		-6.9	2.3	88	10	Str.		
	Mn.	- 8	- 13	ENE	8.0	57.0	-6.6	2.5	91	10	Str.		

<sup>1</sup> Only on the western sky. <sup>2</sup> Sun like a pat of butter. <sup>3</sup> Cirrus-belts converging especially towards S.<sup>4</sup> Cirrus-belts converging towards W and E. <sup>5</sup> Rather deep blue sky over the northern horiz. from E to NW.<sup>6</sup> Probably Ci. behind, as long rows or stripes were visible through the lower layers.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 31.	2	81° 8'	126° 10'	ENE	6.8				94	10	Str.		
	4	- 9	- 7	ENE	6.0	756.1	-4.4	3.0	91	10	Str.		
	6	- 9	- 4	ENE	6.9				92	10	Str.		
	8	- 9	- 1	NE	7.4	56.2	-2.2	3.4	88	10	Str.		1
	10	- 9	125 53	NE <sup>b</sup> E	8.5		-2.2	3.4	88	10	Str.		
	Noon	- 9	- 55	NE <sup>b</sup> E	7.5	55.9	-2.0	3.5	88	10	Str.		2
	2	- 9	- 52	NE <sup>b</sup> E	7.9		-2.1	3.6	92	10	Str.		3
	4	- 9	- 49	NE <sup>b</sup> E	8.0	56.6	-2.2	3.6	91	10	Str.		
	6	- 9	- 46	NE <sup>b</sup> E	6.8		-2.2	3.6	92	10	Str.		
	8	- 9	- 43	NE <sup>b</sup> E	7.2	57.2	-2.0	3.5	91	10	Cust.	NE	
	10	- 10	- 40	NE <sup>b</sup> E	7.2		-2.0	3.5	90	10	Str.		4
	Mn.	- 10	- 37	NE <sup>b</sup> E	6.8	57.2	-2.2	3.6	92	10	Str.		
Sept. 1.	2	81 10	125 34	NE	6.0	57.2	-2.0	3.5	91	10	Str.		*°
	4	- 10	- 31	NE	6.4	57.1	-1.8	3.7	93	10	Str.		
	6	- 10	- 28	NE	6.2				95	10	Str.		
	8	- 10	- 25	NE <sup>b</sup> E	6.5	57.7	-0.7	4.1	95	10	Str.		
	10	- 10	- 22	NE <sup>b</sup> E	6.1		-0.6	4.2	97	10	Str.		
	Noon	- 10	- 19	NE <sup>b</sup> E	6.5	58.2	-1.1	4.0	94	10	Str.		
	2	- 10	- 16	NE <sup>b</sup> E	6.3		-1.5	3.8	93	10	Str.		5
	4	- 11	- 13	NE <sup>b</sup> E	5.2	58.6	-1.4	3.7	90	10	Str.		
	6	- 11	- 10	NE <sup>b</sup> E	4.6		-2.0	3.5	89	10	Str.		
	8	- 11	- 7	NE <sup>b</sup> E	6.0	59.2	-2.3	3.5	89	10	Str.		
	10	- 11	- 4	NE <sup>b</sup> E	7.4		-3.2	3.1	88	10	Cust. Str.	NE	6
	Mn.	- 11	- 2	NE <sup>b</sup> E	5.6	59.0	-3.9	2.9	88	10	Cist.		
Sept. 2.	2	81 11	124 59	NE <sup>b</sup> E	6.4				87	7	Cist.		
	4	- 11	- 56	NE <sup>b</sup> E	5.8	59.2	-6.1	2.5	87	5	Cicu.		
	6	- 11	- 53	NE <sup>b</sup> E	4.5		-6.2	2.6	94	9	Str.		
	8	- 11	- 50	NNE	5.5	59.3	-6.0	2.6	94	10	Str.		
	10	- 12	- 47	NNE	5.8		-4.6	3.0	92	10	Str.		
	Noon	- 12	- 44	NE <sup>b</sup> N	7.4	58.8	-4.0	3.1	91	10	Str.		7
	2	- 12	- 41	NE <sup>b</sup> N	7.2		-4.4	2.9	89	10	Str.		8
	4	- 12	- 38	NE <sup>b</sup> E	6.7	58.1	-4.6	2.8	87	10	Str.		
	6	- 12	- 35	ENE	7.5		-4.4	2.9	88	10	Str.		
	8	- 12	- 32	NE <sup>b</sup> E	9.1	57.7	-4.0	2.9	87	10	Str.		
	10	- 12	- 29	NE <sup>b</sup> E	8.3		-4.1	2.9	89	10	Str.		9
	Mn.	- 12	- 26	NE <sup>b</sup> E	9.0	57.0	-4.5	3.0	93	10	Str.		
Sept. 3.	2	81 12	124 23	ENE	7.3				91	10	Str.		*°
	4	- 13	- 20	ENE	7.7	56.4	-4.7	2.8	89	10	Str.		*°
	6	- 13	- 17	ENE	6.2				89	10	Str.		⊙*
	8	- 13	- 14	NE <sup>b</sup> E	8.2	55.9	-4.2	2.9	86	10	Str.		10
	10	- 13	- 11	NE <sup>b</sup> E	8.5		-4.1	2.8	85	10	Str.		
	Noon	- 13	- 8	ENE	7.3	54.9	-4.0	2.9	87	10	Str.		
	2	- 13	- 5	ENE	6.2		-4.2	2.9	86	10	Str.		11
	4	- 13	- 2	E <sup>b</sup> N	7.5	54.4	-4.4	2.9	88	10	Str.		
	6	- 13	123 59	E <sup>b</sup> N	8.5		-3.9	3.0	90	10	Str.		
	8	- 13	- 56	E	6.3	54.1	-3.9	3.0	90	10	Str.		
	10	- 14	- 53	E <sup>b</sup> N	8.7		-4.8	2.9	90	10	Str.		⊙*°
	Mn.	- 14	- 50	E <sup>b</sup> N	7.2	53.5	-5.0	2.9	92	10	Str.		⊙*°
Sept. 4.	2	81 14	123 48	E <sup>b</sup> N	5.6				89	10	Str.		*
	4	- 14	- 45	E <sup>b</sup> N	5.2	54.0	-3.7	3.0	90	10	Str.		
	6	- 14	- 42	E <sup>b</sup> S	5.5				94	10	Str.		

<sup>1</sup> Blue sky from SW through S to NE. <sup>2</sup> Low particularly blue sky from E through S to SW. <sup>3</sup> Blue sky from N to NE. <sup>4</sup> Blue sky from lanes of water reflected over the eastern horiz. from S to NE. <sup>5</sup> Blue sky in the SE, NE and NW quadrants, tolerably marked. <sup>6</sup> Blue sky all round the horiz. except in the NW quadrant, bluest from E to SW. <sup>7</sup> Uniformly blue sky all round the horiz. except from NW to SW, bluest in SE. <sup>8</sup> Blue sky all round the horiz., but paler than at 2 p. m. <sup>9</sup> Rather deep blue sky from NE to S, deepest in E. Small patches of blue sky in NE and N. <sup>10</sup> Blue sky in NW to NE, also in SE. <sup>11</sup> Blue sky in N to NE.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 4.	8	81° 14'	123° 39'	ENE	5·6	755·2	- 5·6	2·8	92	10°	Cist.		*°
	10	- 14	- 35	E <sup>b</sup> N	4·5		- 5·5	2·8	92	10°	Ci.	E	≡
	Noon	- 14	- 30	ENE	6·2	55·5	- 4·5	3·1	90	10°	Cu.	E	
	2	- 14	- 28	ENE	5·4		- 4·1	3·0	90	7°	Cicu.	E	
	4	- 14	- 25	E <sup>b</sup> N	5·0	55·7	- 4·2	2·9	88	8	Cu.	E	
	6	- 14	- 24	E <sup>b</sup> N	6·0		- 4·9	2·7	87	0			1
	8	- 14	- 22	NE <sup>b</sup> E	6·0	56·2	- 5·9	2·5	87	0			
	10	- 14	- 20	NE	5·0		- 6·6	2·4	88	0			m
	Mn.	- 14	- 18	NE <sup>b</sup> E	6·0	56·1	- 7·0	2·5	95	5			
Sept. 5.	2	81 13	123 16	NE <sup>b</sup> E	6·6		- 6·4	2·6	92	10	Str.		
	4	- 13	- 14	NE <sup>b</sup> E	6·0	55·6	- 6·2	2·6	93	10	Cist.		
	6	- 13	- 13	NE <sup>b</sup> N	5·5		- 4·7	3·1	95	10	Str.		
	8	- 13	- 11	NE	6·5	54·9	- 3·7	3·2	94	10	Cicu. Str.	NE	
	10	- 13	- 9	NE	6·0		- 3·6	3·2	92	10	Cust.	NE	
	Noon	- 13	- 7	NNE	5·3	54·1	- 3·0	3·3	92	10	Cust.		
	2	- 13	- 5	NNE	6·3		- 2·6	3·5	92	10	Str.		*°
	4	- 12	- 3	NE <sup>b</sup> N	7·0	52·7	- 2·7	3·3	88	10	Str.		*°
	6	- 12	- 1	NNE	8·8		- 2·7	3·4	91	10	Str.		*°
	8	- 12	- 0	NNE	9·0	52·5	- 3·7	3·0	90	10	Str.		*°
	10	- 12	122 58	NE <sup>b</sup> N	10·0		- 4·8	2·7	86	10	Str.		*°
	Mn.	- 12	- 56	NNE	10·5	52·3	- 5·3	2·7	87	10	Str.		*
Sept. 6.	2	81 12	122 54	NE <sup>b</sup> N	9·2				88	10	Str.		*°
	4	- 12	- 52	NE <sup>b</sup> N	7·4	52·5	- 4·6	2·8	89	10	Str.		*°
	6	- 11	- 50	NE <sup>b</sup> N	8·0				87	10	Str.		*°
	8	- 11	- 48	NE <sup>b</sup> N	7·4	52·8	- 4·6	2·7	84	10	Cust.	NE	
	10	- 11	- 46	NNE	5·9		- 4·2	2·9	86	10	Str.		*°
	Noon	- 11	- 44	NNE	5·6	52·7	- 3·7	2·9	87	10	Cust.	NE	
	2	- 11	- 43	N <sup>b</sup> E	7·2		- 3·6	3·0	88	10	Str.		
	4	- 11	- 42	N <sup>b</sup> E	5·5	53·2	- 4·1	3·1	93	10	Str.		
	6	- 10	- 41	N <sup>b</sup> E	7·0		- 4·6	2·8	86	10	Str.		
	8	- 10	- 40	N <sup>b</sup> E	5·5	53·0	- 5·3	2·7	90	10	Str.		
	10	- 10	- 39	NNW	7·0		- 5·6	2·7	89	10	Str.		
	Mn.	- 10	- 38	NW <sup>b</sup> N	7·1	52·2	- 6·9	2·5	92	10	Str.		
Sept. 7.	2	81 9	122 37	NW	6·4				90	10	Str.		
	4	- 9	- 36	NW <sup>b</sup> N	5·5	51·3	- 11·8	1·5	87	9	Str. Cicu.	N	2
	6	- 9	- 35	NW <sup>b</sup> N	3·3				89	10	Cist.		
	8	- 9	- 34	NW	5·0	49·3	- 7·4	2·3	91	10	Cust.	NW	3
	10	- 9	- 33	NW	4·3		- 6·7	2·5	92	10	Str.		
	Noon	- 8	- 32	NW	4·9	47·5	- 5·7	2·7	92	10	Str.		
	2	- 8	- 31	NW	5·7		- 6·0	2·6	90	10	Str.		4
	4	- 8	- 30	NW	5·2	46·2	- 6·0	2·4	86	10	Str.		5
	6	- 8	- 29	NW	4·5		- 5·9	2·5	84	10	Str.		6
	8	- 7	- 28	NW <sup>b</sup> N	4·2	45·6	- 5·7	2·5	85	10	Str.		
	10	- 7	- 27	NW	3·6		- 5·6	2·5	85	10	Str.		*
	Mn.	- 7	- 26	N	4·0	45·3	- 5·8	2·7	92	10	Str.		
Sept. 8.	2	81 7	122 24	N	2·6		- 6·0	2·6	91	10	Str.		
	4	- 7	- 23	N	2·3	45·1	- 5·7	2·6	89	10	Str.		
	6	- 6	- 22	N	2·2				86	10	Str.		
	8	- 6	- 21		0	45·4	- 5·2	2·7	87	10	Str.		
	10	- 6	- 20		0		- 4·4	2·7	83	10	Cust.		
	Noon	- 6	- 19	S <sup>b</sup> W	1·4	45·6	- 5·1	2·6	86	10	Str.		
	1	- 6	- 19					2·7	81	10			7
	2	- 5	- 18	W <sup>b</sup> N	0·0		- 4·0	2·9	85	10	Str.		

<sup>1</sup> Bank of cu. in N and NE. <sup>2</sup> The old lane of water in front of the ship open. <sup>3</sup> Deep blue sky in N from NE to SE and from SSW to W, as also a small patch in NW. <sup>4</sup> Several small pieces of blue sky all round the horiz. <sup>5</sup> Several small pieces of blue sky all round the horiz. <sup>6</sup> Light over the horiz. on the E sky. Blue sky over the horiz. on the western sky. <sup>7</sup> Some blue sky on the eastern horiz.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 8.	4	81° 5'	122° 17'	SW <sup>b</sup> W	3.2	746.2	-4.9	2.6	85	10	Str.		* <sup>o</sup> <sup>1</sup> * <sup>o</sup>
	6	- 5	- 16	SW <sup>b</sup> W	3.0		-5.7	2.4	82	10	Cu.		
	8	- 5	- 14	SW <sup>b</sup> W	2.5	46.3	-8.7	2.0	85	10	Cicu. Str.	NW	
	10	- 5	- 12	W <sup>b</sup> S	2.0		-5.7	2.5	86	10	Cicu.	NW	
	Mn.	- 5	- 11	W <sup>b</sup> S	4.7	46.6	-4.4	3.0	92	10	Str.		
Sept. 9.	2	81 4	122 9	W <sup>b</sup> S	4.2				91	10	Str.		☼ <sup>o</sup>
	4	- 4	- 7	SW <sup>b</sup> W	3.5	46.7	-5.4	3.0	92	10	Str.		
	6	- 4	- 5	SW <sup>b</sup> W	3.7		-4.8	2.9	93	10	Str.		
	8	- 4	- 3	SW	5.3	47.1	-3.7	3.1	92	10	Str.		
	8.15	- 4	- 3				-3.7	3.0	90				* *
	10	- 4	- 1	SW	5.3	47.3	-3.7	2.9	88	10	Str.		
	Noon	- 4	121 59	SW	6.2		-2.8	3.1	84	10	Cist.		
	2	- 4	- 58	SW	5.4		-5.9	2.5	86	10	Cicu. Str.	SW	
	4	- 4	- 57	SW <sup>b</sup> W	3.9	48.2	-4.0	2.9	85	10	Str.		2 *
	6	- 4	- 56	SW	6.0		-4.4	2.8	86	10	Str.		
	8	- 5	- 55	SW <sup>b</sup> S	4.2	49.1	-5.0	2.7	86	10	Str.		
	10	- 5	- 54	S	3.2		-7.2	2.2	84	10	Cicu. Str.	S	
	Mn.	- 5	- 52	S	5.2	49.7	-4.7	2.9	91	10	Cust.		3 * *
Sept. 10.	2	81 5	121 51	SSW	3.6		-5.7	2.7	91	10	Cust.		
	4	- 6	- 50	S <sup>b</sup> W	3.0	49.9	-4.9	2.9	92	10	Str.		
	6	- 6	- 49	SW	4.9		-4.1		89	10	Cist.		
	8	- 6	- 48	SW <sup>b</sup> S	5.0	50.4	-5.5	2.6	85	10	Cicu.	SW	
	10	- 6	- 46	SSW	4.2		-4.7	2.6	82	10	Str.		* * *
	Noon	- 7	- 45	S	4.5	50.9	-3.9	2.9	84	10	Str.		
	2	- 7	- 44	SSE	4.1		-4.0	2.9	87	10	Cicu. Cu.	SW	
	4	- 7	- 43	SSE	3.5	51.2	-5.2	2.5	84	10	Cust.	S	
	6	- 7	- 42	SE	3.7		-4.8	2.7	87	10	Cust.	S	* * *
	8	- 8	- 40	SE <sup>b</sup> S	4.8	51.4	-3.9	3.0	90	10	Str.		
	10	- 8	- 39	SE	4.7		-4.3	3.5	92	10	Str.		
	Mn.	- 8	- 38	S	6.9	51.4	-2.7	3.3	88	10	Str.		
Sept. 11.	2	81 8	121 37	S	6.0				91	10	Str.		* <sup>o</sup>
	4	- 9	- 36	S <sup>b</sup> E	5.0	50.7	-2.8	3.4	92	10	Str.		
	6	- 9	- 34	SSE	5.6				96	10	Str.		
	8	- 9	- 33	SSE	5.3	50.9	-2.0	3.8	96	10	Str.		
	10	- 9	- 32	S	6.0		-1.9	3.7	92	10	Str.		* * * * <sup>o</sup>
	Noon	- 10	- 31	S	4.2	51.1	-1.3	3.8	91	10	Str.		
	2	- 10	- 30	SSE	3.2		-1.2	3.8	90	10	Str.		
	4	- 10	- 28	S <sup>b</sup> E	3.1	51.6	-1.5	3.9	94	10	Str.		
	6	- 10	- 27	SE <sup>b</sup> S	4.2		-1.5	3.9	96	10	Str.		☼ ☼ ☼ ☼ <sup>o</sup>
	8	- 11	- 26	S <sup>b</sup> E	2.5	52.0	-2.0	3.8	95	10	Str.		
	10	- 11	- 25	SE	3.5		-2.4	3.5	93	10	Str.		
	Mn.	- 11	- 24	SE	3.0	52.0	-2.1	3.6	93	10	Str.		
Sept. 12.	2	81 11	121 22	SE	2.4		-4.8	2.9	92	10	Cist.		m
	4	- 12	- 21	SE <sup>b</sup> S	3.0	52.1	-4.7	2.9	91	10	Str.		
	6	- 12	- 20		0		-8.5	2.1	88	10			
	8	- 12	- 19	E <sup>b</sup> S	2.1	52.2	-8.3	2.1	87	10°	Cist.		
	9	- 12	- 18	E	2.7		-7.9	2.2	88				m
	10	- 12	- 18				-6.5	2.4	88	10			
	Noon	- 12	- 16	E <sup>b</sup> S	2.5	52.1	-4.9	2.9	90	10	Cist.		
	2	- 13	- 15	ENE	2.6		-4.9	2.7	86	10	Cicu. Str.	NE	
	4	- 13	- 14	E <sup>b</sup> S	1.6	52.4	-4.1	2.9	87	10	Cust.	E	4 *
	6	- 13	- 13	SE <sup>b</sup> S	0.0		-4.0	2.9	86	10	Cust.		
	8	- 13	- 12		0	53.2	-4.5	2.8	87	10	Str.		
	10	- 14	- 10		0		-4.2	2.8	87	10	Str.		
	Mn.	- 14	- 9		0	53.7	-4.8	2.9	90	10	Cust.		

<sup>1</sup> Mock-suns visible on the south side of the sun as bright coloured bows. The clouds only faintly coloured on the north side of the sun. Just below the sun a bright vertical column. <sup>2</sup> Blue sky in S and SE. <sup>3</sup> Blue sky in E. <sup>4</sup> A very deep blue sky from SE to S.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 13.	2	81° 14'	121° 8'		0				90	10	Str.		
	4	- 14	- 7	S b W	1.5	754.2	- 5.1	2.8	90	10	Str.		
	6	- 15	- 6	S b W	2.4				90	7	Cist.	W	≡°
	8	- 15	- 4	SE b S	2.5	54.9	- 8.8	2.0	88	9	Cicu. Cu.	W	
	9	- 15	- 6				- 6.2	2.4	84				
	10	- 15	- 9	S	3.4		- 6.2	2.2	79	10	Cust.	SW	
	Noon	- 15	- 16	S	4.6	55.0	- 3.6	2.9	83	10	Cist.		
	2	- 15	- 22	S	4.8		- 3.8	2.9	85	10	Str.		
	4	- 15	- 29	S b W	6.5	55.8	- 4.6	2.7	84	10	Cicu. Str.	S	
	6	- 16	- 36	S	5.3		- 4.6	2.8	87	10	Str.		*°
	8	- 16	- 42	S b W	6.3	56.0	- 4.4	2.9	89	10	Str.		
	10	- 16	- 49	SSW	6.6		- 5.2	2.7	89	10	Str.		
	Mn.	- 16	- 56	SSW	4.4	56.3	- 5.6	2.7	91				≡
Sept. 14.	2	81 16	122 2	SW b S	2.2				89	10	Str.		≡°
	4	- 16	- 9	SSW	5.4	56.9	- 5.2	2.8	91	10	Cust.		
	6	- 16	- 16	SSW	4.1				92	10	Cist.		
	8	- 16	- 22	S	5.8	56.6	- 4.4	3.0	91	10	Str.		
	10	- 17	- 29	S b W	6.0		- 4.1	3.0	92	10	Str.		*
	Noon	- 17	- 36	S	4.9	52.6	- 3.1	3.4	93	10	Str.		
	2	- 17	- 42	S b W	4.8		- 1.8	3.6	91	10	Str.		
	4	- 17	- 49	S	4.3	56.5	- 1.8	3.7	92	10	Cust.		
	6	- 17	- 56	SSE	4.7		- 3.3	3.2	90	10	Cust.	S	
	8	- 17	123 2	SE b S	4.0	55.9	- 3.3	3.2	90	10	Str.		≡°
	10	- 17	- 9	SSE	5.0		- 2.8	3.2	88	10	Ci.	SSW	
												SSE	
	Mn.	- 17	- 16	S	5.1	54.7	- 4.2	2.9	89	8	Cicu.	SW	
Sept. 15.	2	81 18	123 22	S b W	7.5		- 3.2	3.0	86	10	Str.		
	4	- 18	- 29	S	7.7	53.9	- 3.4	3.1	89	10	Str.		
	6	- 18	- 36	S	10.4				89	10	Str.		
	8	- 18	- 42	SSE	9.1	53.9	- 3.5	3.0	87	10	Str.		*°
	10	- 18	- 49	SSE	8.2		- 3.3	3.2	89	10	Cicu. Str.		*°
	Noon	- 18	- 56	S b E	7.5	52.1	- 2.0	3.5	89	10	Str.		*°
	2	- 18	124 2	SSW	5.8		- 0.9	3.8	89	10	Str. Cist.		*
	4	- 18	- 9	W	4.0	53.1	- 2.2	3.4	88	10	Cust.		
	6	- 19	- 16	WNW	4.5		- 7.1	2.3	90	10	Str.		
	8	- 19	- 22	WNW	4.4	54.9	- 6.3	2.4	88	10	Str.		
	10	- 19	- 29	WNW	4.4		- 10.8	1.6	84	10	Ci.		
	Mn.	- 19	- 35	NW	2.4	56.1	- 14.8	1.2	81	10	Ci.		
Sept. 16.	2	81 19	124 33		0				80	0	Str.		
	2.15	- 19	- 33	SW b S	1.2				80				
	4	- 19	- 32		0	55.9	- 15.6	1.1	80	7	Cust.		
	6	- 19	- 31	SE b S	3.5		- 12.4	1.4	81	8	Cust.		
	8	- 19	- 29	SE b S	6.4	54.3	- 9.0	1.9	86	10	Str.		
	10	- 20	- 28	SE b S	7.6		- 6.8	2.3	86	10	Str.		
	Noon	- 20	- 26	SE b S	8.1	51.5	- 5.3	2.6	86	10	Cist.		*
	2	- 20	- 25	SE b S	9.6		- 4.3	2.9	88	10	Str.		*
	4	- 20	- 24	SE b S	9.1	49.0	- 1.8	3.6	90	10	Str.		*
	6	- 20	- 22	S b E	9.1		- 1.4	3.9	95	10	Str.		*
	8	- 20	- 21	S	9.0	47.7	- 0.1	4.3	95	10	Str.		
	10	- 21	- 19	S	7.7		0.2	4.6	96	10	Str.		●
	Mn.	- 21	- 18	SW	5.1	47.0	0.4	4.5	95	10	Str.		●
Sept. 17.	2	81 21	124 16	W b S	3.8				90	10	Str.		
	4	- 21	- 15	W b N	7.7	48.7	- 3.6	2.9	87	10	Str.		
	6	- 21	- 14	WNW	8.1				84	10	Str.		
	8	- 21	- 12	NW b W	6.4	50.8	- 10.0	1.7	79		Ci.	SW	1
	10	- 21	- 11	W b N	3.7		- 10.4	1.6	81	8	Ci.	S	2
	Noon	- 22	- 9	W b S	3.2	50.2	- 7.7	2.1	83	10	Cust.	SW	

1 A few ci. 2 High ci.



1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 17.	2	81° 22'	124° 8'	SWbW	3.6		-7.6	2.2	86	10	Str.		
	4	- 22	- 6	SSW	4.4	748.9	-6.8	2.3	83	10	Str.		
	6	- 22	- 5	WbN	7.0		-8.3	1.8	74	5	Cicu.	S	
	8	- 22	- 4	WbS	4.2	48.2	-13.0	1.3	76	1	Cu.		
	10	- 22	- 2	WSW	3.2		-15.2	1.2	80	10			
	Mn.	- 22	- 1	W	1.5	47.6	-16.6	1.0	81	0			
Sept. 18.	2	81 22	124 0	NWbW	3.0		-12.5	1.4	83	0			
	4	- 21	123 59	NWbW	3.0	47.7			81	10	Snow.sk.		1
	6	- 21	- 58	NWbW	6.4				81	10	Str.		*
	8	- 20	- 57	NWbW	10.5	47.7	-12.0	1.3	75	10	Str.		2
	10	- 20	- 56	NWbW	11.3		-12.4	1.3	79	10	Str.		
	Noon	- 20	- 55	NWbW	13.5	47.6	-13.3	1.2	77	10	Str.		
	2	- 19	- 54	NWbW	13.9		-10.7	1.6	80	10	Str.		
	4	- 19	- 53	NWbW	13.0	49.0	-9.5	1.8	84	10	Cust.	NW	
	6	- 18	- 52	NWbW	11.7		-8.9	1.9	83	10	Str.		
	8	- 18	- 51	NWbW	10.4	51.1	-8.5	2.1	87	10	Str.		
	10	- 18	- 50	NWbN	8.5		-8.2	2.1	86	10	Str.		
	Mn.	- 17	- 49	NWbN	6.4	52.8	-7.9	2.1	86	10	Str.		
Sept. 19.	2	81 17	123 48	NWbN	6.5		-7.3	1.9	86	9	Str.		
	4	- 16	- 47	NW	5.9	54.8	-6.8	2.3	86	10	Str.		
	6	- 16	- 46	NbW	6.6				87	10	Str.		
	8	- 16	- 45	NbE	5.8	57.8	-9.2	2.0	89	10°	Ci. Cust.	N NW	
	10	- 15	- 44	NWbN	4.5		-9.5	1.9	88	10	Cist.		
	Noon	- 15	- 43	NbW	8.8	59.5	-9.4	1.9	86	10	Cist.		
	2	- 14	- 43	NbW	7.6		-10.2	1.7	85	0			
	4	- 14	- 42	N	5.4	61.9	-11.9	1.4	79	0			
	6	- 14	- 42	NbE	3.8		-10.8	1.5	79	10	Cu.	N	
	8	- 14	- 41	N	5.0	63.8	-8.9	2.1	93	10	Cust.	N NW	
	10	- 14	- 41	NbE	4.9		-9.4	1.7	79	10	Cust.		
	Mn.	- 14	- 40	NbE	2.8	65.4	-11.4	1.5	80	10	Cust.		
Sept. 20.	2	81 13	123 40	NbE	2.5				81	10°	Ci.	N	
	4	- 13	- 39	NbE	2.7	66.8	-9.7	1.7	81	10	Str.		
	6	- 13	- 39	NWbN	2.2				82	10	Str.		*°
	8	- 13	- 38	NNW	2.1	67.7	-8.5	2.0	85	10	Cust.	NW	*°
	10	- 13	- 38	NbE	1.4		-8.1	2.0	82	10	Cust.	N	
	Noon	- 13	- 38		1.7	68.3	-7.4	2.0	83	10	Cust.	NW	
	2	- 12	- 37		0		-7.7	2.0	82	10	Cu.	NW	3
	4	- 12	- 37	ESE	3.0	68.5	-8.5	1.9	83	10	Str.		
	6	- 12	- 36	SEbE	2.5		-8.2	2.1	85	10	Str.		
	8	- 12	- 36	SEbS	3.0	68.7	-9.6	1.9	88	10	Cust.		
	10.30	- 12	- 35	SEbE	3.2		-13.6	1.3	86	10°	Ci. Cist.	NW	4
	Mn.	- 12	- 34	SEbE	3.5	67.8	-16.6	1.0	82	10	Cist.		
Sept. 21.	2	81 12	123 32	SEbE	3.6				82	8	Cist.		
	4	- 12	- 31	SEbE	3.4	67.3	-17.1	1.0	82	8	Cist.		
	6	- 12	- 30	SEbE	3.2				82	10	Cist.		
	8	- 13	- 28	ESE	4.4	66.8	-17.9	0.8	79	0			
	10	- 13	- 27	SEbE	5.5		-16.1	1.0	80	10	Cist.		
	Noon	- 13	- 26	SEbE	4.3	66.3	-15.6	1.1	80	10	Cist.		
	2	- 13	- 25	ESE	4.7		-14.6	1.2	81	10°	Cicu. Str.	ESE	
	4	- 13	- 23	SEbE	4.0	66.1	-14.2	1.3	83	10	Cist.		
	6	- 14	- 22	SEbE	5.7		-14.0	1.3	83	10	Cust.	SE	
	8	- 14	- 21	SEbE	4.3	65.6	-14.1	1.3	83	10	Cust.	SE	
	10	- 14	- 19	SEbE	4.4		-14.4	1.2	82	10	Cicu.		5
	Mn.	- 14	- 18	SEbE	3.0	65.0	-14.1	1.2	82	10	Cist.	SE	

<sup>1</sup> 3 a. m. Ci. in E to SE singly. <sup>2</sup> From 8 a. m. to midn. driving snow from the ground. <sup>3</sup> Clear segment about 10° high from N to SE, with deep blue sky nearest the horiz. <sup>4</sup> U. <sup>5</sup> U.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 22.	2	81° 14'	123° 17'	SE <sup>b</sup> E	3.8				83	10	Cust.		
	4	- 14	- 15	SE <sup>b</sup> E	3.7	764.0	-13.1	1.4	84	10	Cist.		
	6	- 15	- 14	SE <sup>b</sup> E	4.0				85	10°	Str.		
	8	- 15	- 13	E <sup>b</sup> S	4.4	64.1	-12.0	1.5	85	10	Str.		
	10	- 15	- 12	E <sup>b</sup> S	4.5		-11.9	1.5	85	10	Cust.	SE	
	Noon	- 15	- 10	E <sup>b</sup> S	5.4	63.5	-11.8	1.6	86	10	Cicu. Str.	E	
	2	- 15	- 9	E	5.2		-12.4	1.5	86	10	Cicu. Str.	E	
	4	- 16	- 8	E <sup>b</sup> S	4.5	64.1	-13.3	1.4	85	10	Cist.	E	
	6	- 16	- 6	E	5.2		-14.1	1.2	85	10	Cu. Cist.	SE	
	8	- 16	- 5	E <sup>b</sup> S	3.0	65.3	-13.1	1.4	87	10	Cust.	SE	
	10	- 16	- 4	E <sup>b</sup> N	3.9		-13.7	1.4	87	10	Cicu. Cu.	S	
	Mn.	- 16	- 3	E <sup>b</sup> N	3.4	64.4	-14.4	1.3	86	10	Str.		
Sept. 23.	2	81 16	123 1	E <sup>b</sup> N	3.6				86	10	Str.		
	4	- 17	- 0	ENE	4.3	64.8	-15.1	1.2	85	10	Str.		
	6	- 17	122 59	NE <sup>b</sup> E	4.0		-16.8	1.0	83	10	Cist.		
	8	- 17	- 57	NE <sup>b</sup> N	3.6	65.1	-18.9	0.8	81	10	Cu.	S	
	10	- 17	- 56	NE <sup>b</sup> N	3.0		-18.5	0.9	81	10	Cu.	S	
	Noon	- 17	- 55	NE <sup>b</sup> E	4.2	65.3	-17.8	0.9	82	10	Cu.	S	
	2.15	- 18	- 53	NE <sup>b</sup> E	3.9		-18.4	0.9	82	8	Cu.	N	
	4	- 18	- 52	NE <sup>b</sup> N	2.6	65.8	-20.8	0.7	80	0			
	6	- 18	- 51	NE	3.0		-17.6	0.9	81	10	Cist.		
	8	- 18	- 50	NNE	2.4	66.3	-16.6	1.0	81	10	Cist.		
	10	- 18	- 48	N	3.3		-15.7	1.1	83	10	Str.		
	Mn.	- 18	- 47	N <sup>b</sup> E	3.0	66.3	-15.6	1.1	84	10	Str.		
Sept. 24.	2	81 19	122 46	N <sup>b</sup> E	2.3				84	10	Str.		
	4	- 19	- 44	NW <sup>b</sup> N	2.5	66.1	-14.5	1.2	84	10	Str.		
	6	- 19	- 43	N <sup>b</sup> W	2.8				84	10	Str.		
	8	- 19	- 42	NNW	3.6	66.2	-14.2	1.2	84	10	Cust.	SE	
	10	- 19	- 41	NW <sup>b</sup> N	3.6		-14.0	1.3	84	10	Cust.	SE	*°
	Noon	- 20	- 39	NNW	4.5	66.4	-13.9	1.3	84	10	Cust.		*°
	2	- 20	- 38	NW <sup>b</sup> N	3.2		-14.4	1.2	83	10	Cicu.	SE	
	4	- 20	- 37	NW	3.4	67.4	-16.5	1.0	82	10	Cicu.	SE	
	6	- 20	- 35	NW <sup>b</sup> N	4.2		-14.6	1.2	83	10	Cist.	E	
	8	- 20	- 34	NW <sup>b</sup> N	3.7	67.8	-13.8	1.3	84	10	Cust.		
	10	- 20	- 33	N	3.4		-14.2	1.2	84	10	Cist.		
	Mn.	- 21	- 31	N <sup>b</sup> W	3.0	68.0	-14.9	1.2	84	9°	Cist.		
Sept. 25.	2	81 21	122 31	NW <sup>b</sup> N	2.6				84	10°	Cist.		
	4	- 20	- 30	NW <sup>b</sup> N	3.6	68.4	-13.3	1.3	84	10	Str.		
	6	- 20	- 29	NW <sup>b</sup> N	3.6				84	10	Str.		
	8	- 20	- 29	N <sup>b</sup> W	5.2	68.6	-10.9	1.7	87	10	Cust.	E	*°
	10	- 20	- 28	N <sup>b</sup> W	4.5		-10.2	1.8	88	10	Ci. Cust.	E	*°
	Noon	- 20	- 27	N <sup>b</sup> W	4.6	68.7	- 9.8	1.8	88	9	Str.		
	2	- 20	- 27	N <sup>b</sup> E	5.6		- 8.2	2.1	89	10	Str.		
	4	- 19	- 26	N <sup>b</sup> E	7.0	69.1	- 8.8	1.9	86	10	Str.		
	6	- 19	- 25	N <sup>b</sup> E	5.6		- 9.4	1.8	82	10	Str.		*°
	8	- 19	- 25	N <sup>b</sup> E	4.0	69.8	- 9.7	1.7	82	10	Str.		
	10	- 19	- 24	N <sup>b</sup> E	6.7		-10.0	1.7	80	10	Cust.	NW	
	Mn.	- 19	- 23	N <sup>b</sup> E	6.3	70.5	-10.2	1.6	80	10	Str.		
Sept. 26.	2	81 19	122 23	N <sup>b</sup> E	5.0		-10.6	1.6	81	10	Str.		
	4	- 18	- 22	N <sup>b</sup> E	5.0	70.7	-10.8	1.7	88	10	Str.		
	6	- 18	- 21	N <sup>b</sup> E	5.8		-11.2	1.3	67	10	Str.		
	8	- 18	- 21	N	5.8	70.6	-11.3	1.2	65	10	Str.		*°
	10	- 18	- 20	N <sup>b</sup> E	6.0		-11.6	1.3	69	10	Str.		
	Noon	- 18	- 20	N <sup>b</sup> W	5.0	70.2	-11.5	1.5	77	10	Str.		
	2	- 17	- 19	NW <sup>b</sup> N	6.3		-11.7	1.5	82	10	Str.		*°
	4	- 17	- 18	NW <sup>b</sup> N	3.8	70.1	-12.9	1.3	81	10	Str.		
	6	- 17	- 18	NW	4.5		-13.0	1.3	80	10	Str.		
	8	- 17	- 17	NW	4.2	69.9	-11.9	1.5	82	10	Str.		
	10	- 17	- 16	NW <sup>b</sup> N	4.9		-12.1	1.5	84	10	Cust.	NE	≡
	Mn.	- 17	- 16	NW <sup>b</sup> N	5.0	68.9	-11.2	1.6	85	10	Str.		

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 27.	2	81° 16'	122° 15'	NW b N	3.4	768.3	-10.5	1.7	85	10	Str.	N	
	4	- 16	- 14	NW b N	2.8					10	Str.		
	6	- 16	- 14	NW b W	2.4					10	Str.		
	8	- 16	- 13	NW b W	3.4	67.6	- 8.9	2.0	89	10°	Ci. Cust.		
	10	- 16	- 12	NW b W	3.3		- 8.3	2.1	88	10	Str.		
	Noon	- 16	- 12	WNW	3.4	67.0	- 8.1	2.1	88	10°	Cist.		
	2	- 15	- 11	NW	3.7		- 7.8	2.2	89	10	Str.		
	4	- 15	- 10	NW	3.2	66.7	- 7.8	2.2	89	10	Str.		
	6	- 15	- 10	NW b N	3.2		- 7.9	2.2	89	10	Str.		
	8	- 15	- 9	NW b N	3.0	66.9	- 7.6	2.2	90	10	Str.		
	10	- 15	- 8	N b W	4.7		- 6.9	2.2	88	10	Str.		
	Mn.	- 15	- 8	N	4.6	66.9	- 7.6	2.3	92	10	Str.		
Sept. 28.	2	81 14	122 7	N b W	4.5	67.1	- 9.4	2.0	92	10	Str.	SSW SW SW SW	1
	4	- 14	- 6	N b W	4.1					9	Str.		
	6	- 14	- 6	NW b N	3.0					10	Str.		
	8	- 14	- 5	NW	3.9	67.1	- 10.7	1.7	88	10	Cust.		
	10	- 14	- 5	N b W	2.4		- 12.6	1.4	86	10	Cu.		
	Noon	- 14	- 4	NW	2.4	67.2	- 15.2	1.2	85	9	Cu. Cieu.		
	2	- 13	- 3	W	1.8		- 16.7	1.0	82	4	Cieu.		
	4	- 13	- 3	W	2.4	67.3	- 18.4	0.8	81	5	Cieu.		
	6	- 13	- 2	W	3.2		- 21.1	0.6	79	0			
	8	- 13	- 1	NW	3.7	67.1	- 20.6	0.6	80	10°	Ci.		
	10	- 13	- 1	WNW	2.1		- 21.2	0.6	79	0			
	Mn.	- 13	- 1	SW b W	1.8	67.3	- 22.6	0.5	78	9			
Sept. 29.	2	81 12	122 1	W b S	2.0	66.9	- 22.8	0.5	77	0		NW	2
	4	- 12	- 1	W b N	2.2					10			
	6	- 12	- 1	W b N	2.0					5	Ci.		
	8.15	- 12	- 1	W b S	2.1	67.0	- 22.8	0.5	77	1	Ci. Cist.		
	10	- 11	- 1	W b S	2.0		- 23.1	0.5	77	0			
	Noon	- 11	- 1	W b S	2.6	65.9	- 20.8	0.7	78	10°	Cist.		
	2	- 11	- 1	W	3.1		- 19.8	0.8	79	10	Cist.		
	4	- 11	- 1	W	2.8	65.4	- 19.2	0.8	80	10	Cist.		
	6	- 11	- 1	W b N	3.4		- 18.2	0.9	82	10	Cist.		
	8	- 10	- 1	W b N	3.2	65.2	- 16.6	1.0	82	10	Str.		
	10	- 10	- 1	W	3.2		- 14.9	1.2	84	10	Str.		
	Mn.	- 10	- 1	W b N	2.5	64.2	- 13.4	1.3	85	10	Str.		
Sept. 30.	2	81 10	122 1	W b N	3.6	63.8	- 9.2	2.0	92	10	Str.	NW NW NW	5
	4	- 9	- 1	NW	3.5					10	Str.		
	6	- 9	- 1	N b W	3.7					10	Str.		
	8	- 9	- 1	NW b N	5.1	63.9	- 7.9	2.3	91	10	Str.		
	10	- 9	- 2	NW b N	4.0		- 9.8	1.8	87	3	Cust.		
	Noon	- 9	- 2	NW	3.9	64.1	- 10.5	1.8	90	8°	Cieu.		
	2	- 8	- 2	NW	2.5		- 12.2	1.5	89	10°	Cist.		
	4	- 8	- 2	NW b N	5.2	64.6	- 9.7	1.9	89	10°	Cist.		
	6	- 8	- 2	NW b N	6.4		- 10.1	1.9	90	10	Str.		
	8	- 8	- 2	NW b N	7.2	65.3	- 10.5	1.8	90	10	Str.		
	10	- 7	- 2	NW b N	5.2		- 12.2	1.6	88	10	Str.		
	Mn.	- 7	- 2	NW b N	5.0	65.3	- 12.8	1.5	88	8	Str.		
Oct. 1.	2	81 7	122 2	NW b N	4.4	65.7	- 12.5	1.5	88	10	Str.	NW	*°
	4	- 7	- 2	NW b N	4.0					10	Str.		
	6	- 7	- 2	NW b N	4.7					10	Str.		
	8	- 6	- 2	NW	4.2	66.3	- 15.2	1.2	85	10	Cieu. Str.		
	10	- 6	- 2	NW b N	4.2		- 15.3	1.2	86	10	Str. Sn. sk.		
	Noon	- 6	- 2	NW b N	3.5	66.7	- 15.1	1.2	85	10°	Cist.		

<sup>1</sup> On the horiz. deep blue sky from SW to NW. <sup>2</sup> ≡ over the ice. <sup>3</sup> This morning coloured — with a fainter inner bow. <sup>4</sup> Faint —. <sup>5</sup> Thick dark bank of clouds from NE to NW; also banks all round the horiz. <sup>6</sup> 5 p. m. \*.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Octb. 1.	2	81° 6'	122° 2'	NW	4.2		-14.9	1.2	85	10	Cicu. Str.	NE	
	4	- 5	- 2	NW	3.4	767.5	-20.0	0.7	83	10°	Cicu. Str.		
	6	- 5	- 2	NW <sup>b</sup> N	3.2		-21.1	0.7	81	10°	Cist.		
	8	- 5	- 2	NW <sup>b</sup> N	2.6	68.5	-22.5	0.5	80	0			
	10	- 5	- 2	NW <sup>b</sup> N	2.4		-23.8	0.5	80	0			
	Mn.	- 5	- 2	NW <sup>b</sup> W	1.3	68.4	-25.1	0.5	79	0			
Octb. 2.	2	81 5	122 2	NW <sup>b</sup> W	1.2		-27.3	0.4	79	0			
	4	- 5	- 2		0	68.1	-27.0	0.4	78	0			
	6	- 5	- 2		0				77	5	Cist.		m <sup>1</sup>
	8	- 5	- 3	W	2.2	67.9	-24.2	0.6	88	10	Cicu. Str.	W	
	10	- 5	- 3	W <sup>b</sup> S	2.3		-21.9	0.6	80	10	Cist.		
	Noon	- 5	- 3	W <sup>b</sup> S	3.2	67.3	-20.0	0.7	82	10	Str.		
	1	- 5	- 3				-20.3	0.7	82	10			
	2	- 5	- 3	WSW	2.8		-20.8	0.7	82	10	Str.		
	4	- 5	- 3	W <sup>b</sup> S	2.4	67.6	-20.3	0.7	82	10	Str.		
	6	- 5	- 3	W <sup>b</sup> S	2.2		-19.2	0.8	82	10	Str.		
	8	- 5	- 3	WSW	2.4	67.5	-18.0	0.9	84	10	Str.		
	10	- 5	- 3	NW	1.9		-20.8	0.7	83	10	Cist.		
	Mn.	- 5	- 3	NW	2.2	67.3	-23.9	0.5	82	10			
Octb. 3.	2	81 5	122 3	NW <sup>b</sup> W	2.0		-24.3	0.5	81	7	Str.		
	4	- 5	- 3		0	67.2	-23.5	0.6	82	5	Str.		
	6	- 5	- 3		0		-24.1	0.5	81	10	Cust.		
	8	- 5	- 3		0	66.7	-25.9	0.3	80	0			
	10	- 5	- 4		0		-25.4	0.3	79		Cicu.		
	Noon	- 5	- 4	SE <sup>b</sup> S	1.4	65.7	-20.6	0.6	82	10°	Cicu. Str.	SE	
	2	- 5	- 4		0		-23.3	0.4	81	10°	Ci.	W	
	4	- 5	- 4	S <sup>b</sup> E	1.5	65.5	-22.4	0.5	81	10	Cicu. Str.		*°
	6	- 5	- 4	S <sup>b</sup> E	2.0		-23.9	0.4	81	10°	Cist.		
	8	- 5	- 4	SE <sup>b</sup> S	2.5	64.4	-26.1	0.4	81	10°	Cist.		*°
	10	- 5	- 2	SE <sup>b</sup> S	1.9		-23.5	0.7	85	10°	Cist.		*°
	Mn.	- 5	- 0	SE <sup>b</sup> S	2.0	63.3	-22.3	0.6	84	10	Cist.		*°
Octb. 4.	2	81 6	121 57	SE <sup>b</sup> S	2.8				86	10	Str.		
	4	- 6	- 55	SE <sup>b</sup> S	2.4	62.3	-17.5	1.0	87	10	Str.		
	6	- 6	- 53	SE <sup>b</sup> E	2.8				87	10	Str.		
	8	- 7	- 50	SE <sup>b</sup> E	2.5	61.6	-17.0	1.0	88	10	Str.		
	10	- 7	- 48	SE	3.3				89	10	Str.		
	Noon	- 7	- 46	SE	3.5	60.8	-17.4	1.0	89	10	Str.		
	2	- 7	- 44	SE <sup>b</sup> S	4.2		-17.9	1.0	90	10	Str.		
	4	- 8	- 41	SE	4.8	60.2	-17.6	0.9	85	10	Str.		2
	6	- 8	- 39	SE <sup>b</sup> S	4.6		-17.6	0.9	84	10	Str.		
	8	- 8	- 37	SE <sup>b</sup> E	4.9	59.4	-17.8	0.9	84	10	Str.		
	10	- 9	- 34	ESE	5.0		-17.9	0.9	84	10	Str.		
	Mn.	- 9	- 32	SE <sup>b</sup> E	5.0	59.1	-17.4	1.0	83	10	Str.		
Octb. 5.	2	81 9	121 30	ESE	5.0				82	10	Str.		
	4	- 10	- 27	E <sup>b</sup> S	6.4	58.4	-17.2	0.9	81	10	Str.		
	6	- 10	- 25	E <sup>b</sup> S	6.6		-17.4	1.0	82	10	Str.		
	8	- 10	- 23	E <sup>b</sup> S	6.3	57.2	-16.7	0.9	82	10	Str.		
	10	- 10	- 21	E <sup>b</sup> S	5.7		-15.3	1.1	83	10	Str.		
	Noon	- 11	- 18	E <sup>b</sup> S	7.3	56.4	-14.0	1.3	84	10	Str.		
	2	- 11	- 16	E <sup>b</sup> S	6.5		-14.2	1.2	84	10	Str.		
	4	- 11	- 14	ESE	7.1	56.2	-14.3	1.2	83	10	Str.		
	6	- 12	- 11	ESE	8.5		-14.2	1.2	83	10	Str.		*
	8	- 12	- 9	ESE	7.2	55.7	-14.6	1.2	82	10	Str.		*
	10	- 12	- 7	ESE	7.1		-15.1	1.1	81	10	Str.		*
	Mn.	- 12	- 4	ESE	8.3	54.7	-15.6	1.1	81	10	Str.		* <sup>2</sup>

<sup>1</sup> m horiz. <sup>2</sup> 5 p.m. moved the thermometer-screen nearer to the ship right across the port bow, 30 paces from the ship's side.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Octb. 6.	2	81°13'	121° 2'	ESE	8.0		-15.8	1.0	81	10	Str.		*
	4	- 13	- 0	E <sup>b</sup> S	9.6	753.5	-15.2	1.1	81	10	Str.		*
	6	- 13	120 58	ESE	10.0				81	10	Str.		*
	8	- 14	- 55	ESE	11.9	52.5	-13.8	1.3	82	10	Str.		*
	10	- 14	- 53	ESE	8.5		-13.6	1.3	83	10	Str.		*
	Noon	- 14	- 51	ESE	8.6	53.0	-13.3	1.3	83	10	Str.		*
	2	- 14	- 48	SE <sup>b</sup> E	8.9		-13.4	1.3	83	10	Cust.	N	*
	4	- 15	- 46	SE <sup>b</sup> E	7.7	53.5	-13.8	1.3	83	10	Str.		*
	6	- 15	- 44	E <sup>b</sup> S	6.5		-13.3	1.3	81	10	Str.		*
	8	- 15	- 41	E <sup>b</sup> S	5.6	54.0	-13.3	1.3	81	10	Str.		*
	10	- 16	- 39	E <sup>b</sup> N	5.9		-14.8	1.2	81	10	Str.		*
	Mn.	- 16	- 37	E <sup>b</sup> N	5.4	54.2	-15.8	1.0	79	10	Str.		*
Octb. 7.	2	81 16	120 35	E <sup>b</sup> N	6.4				78	10	Str.		
	4	- 16	- 32	E <sup>b</sup> N	6.0	54.4	-17.6	0.9	78	10	Str.		
	6	- 17	- 30	E <sup>b</sup> N	6.6		-19.4	0.7	76	10	Str.		
	8	- 17	- 28	ENE	6.4	55.3	-19.8	0.7	75	10	Str.		
	10	- 17	- 25	ENE	6.6		-18.8	0.8	76	10	Str.		
	Noon	- 18	- 23	ENE	7.8	56.5	-17.8	0.9	76	10	Str.		
	2	- 18	- 21	ENE	7.8		-17.4	0.9	76	10	Str.		
	4	- 18	- 18	ENE	6.8	57.2	-20.3	0.7	74	0			
	6	- 18	- 16	E <sup>b</sup> N	7.8		-22.5	0.5	74	0			
	8	- 18	- 14	NE <sup>b</sup> E	5.1	58.9	-23.4	0.5	73	0			
	10	- 18	- 13	NE	4.1		-23.8	0.5	74	0			
	Mn.	- 18	- 13	NE	5.5	59.8	-24.1	0.5	76				
Octb. 8.	2	81 18	120 12	NE	5.6				74				
	4	- 18	- 12	NNE	4.7	60.7	-24.8	0.4	74	0			
	6	- 18	- 11	NE <sup>b</sup> N	6.0				74	0			
	8	- 18	- 11	NNE	4.2	61.9	-26.3	0.2	74	0			
	10	- 18	- 10	NNE	4.0		-26.0	0.4	75	0			
	Noon	- 18	- 9	N <sup>b</sup> E	4.4	62.8	-25.9	0.4	75	0			
	2	- 18	- 9	N <sup>b</sup> E	5.0		-26.2	0.4	74	0			
	4	- 18	- 8	N	4.5	64.8	-26.4	0.4	74	0			
	6	- 18	- 8	N	5.0		-26.8	0.4	71	0			
	8	- 18	- 7	N	5.0	65.4	-25.8	0.4	72	0			
	10	- 18	- 7	NNW	6.0		-21.9	0.6	74	10	Str.		
	Mn.	- 18	- 6	NNW	3.7	65.0	-20.7	0.6	75	10	Str.		*
Octb. 9.	2	81 18	120 5	NNW	4.4				75	10	Str.		
	4	- 17	- 5	NNW	4.2	65.5	-20.8	0.6	75		Str.		
	6	- 17	- 4	NW <sup>b</sup> N	4.3				75				
	8	- 17	- 4	NW <sup>b</sup> W	5.0	64.9	-23.1	0.3	75	10	Cist.	NW	
	10	- 17	- 3	NW <sup>b</sup> W	3.8		-25.0	0.4	75	3			
	Noon	- 17	- 2	WNW	3.4	64.3	-26.5	0.4	74	0			
	2	- 17	- 2	W	3.0		-27.7	0.3	74	0			
	4	- 17	- 1	W	2.7	63.8	-28.0	0.3	73	0			
	6	- 17	- 1	W <sup>b</sup> S	2.6		-29.0	0.3	72	0			
	8	- 17	- 0	SW <sup>b</sup> W	2.6	62.7	-27.2	0.4	72	10°			m
	10	- 17	- 0	SW <sup>b</sup> W	2.9		-26.6	0.4	72	0			
	Mn.	- 17	119 59	SW	2.8	61.0	-28.0	0.3	72	10			
Octb. 10.	2	81 17	119 59	SW <sup>b</sup> W	2.3		-27.2	0.4	73	0			
	4	- 17	- 58	SW <sup>b</sup> W	1.7	59.0	-25.8	0.4	73	8	Str.		
	6	- 17	- 57	SE <sup>b</sup> S	1.8				73	10°	Cist.		
	8	- 17	- 57	SE <sup>b</sup> S	2.1	57.0	-23.5	0.5	74	10	Str.		*
	10	- 17	- 56	ESE	3.7		-23.7	0.5	74	10	Str.		*
	Noon	- 16	- 56	E <sup>b</sup> N	3.9	55.0	-22.7	0.5	74	10	Str.		*

<sup>1</sup> Light str. on the horiz. in NE to E. <sup>2</sup> Light str. on the horiz. in NE to E. <sup>3</sup> Mock-suns visible as 2 coloured columns, one on each side down on the horiz.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Octb. 10.	2	81° 16'	119° 55'	ENE	5.2		-22.4	0.5	74	10	Str.		
	4	- 16	- 54	NbW	5.0	753.4	-21.8	0.6	74	10	Cust.		
	6	- 16	- 54	WbN	4.0		-25.3	0.4	73	10	Cust.		
	8	- 16	- 53	SWbW	3.8	54.8	-31.2	0.2	72	0			
	10	- 16	- 51	SWbW	2.8		-33.5	0.2	70	0			
	Mn.	- 17	- 49	SbW	2.0	56.2	-35.5	0.2	70	0			
Octb. 11.	2	81 17	119 46		0				70	0			
	4	- 18	- 43		0	57.4	-35.7	0.1	70	0			
	6	- 18	- 40		0				71	10			
	8	- 19	- 37	E	2.3	57.9	-28.0	0.3	71	10	Str.		
	10	- 19	- 34	SE	3.5		-22.3	0.6	74	10	Str.		
	Noon	- 20	- 31	SEbE	4.0	57.8	-23.0	0.5	74	10	Cust.		
	2	- 20	- 29	SEbE	4.5		-20.6	0.6	75	10			*
	4	- 21	- 26	SE	4.0	57.4	-17.9	0.8	72	10			*°
	6	- 21	- 23	SEbE	7.8		-16.9	1.1	88	10			*
	8	- 22	- 20	SEbE	11.2	56.0	-16.6	1.0	79	10			*
	10	- 22	- 17	ESE	9.6		-16.0	1.0	78	10			*
	Mn.	- 23	- 14	SEbE	8.0	53.9	-15.0	1.1	80	10			*
Octb. 12.	2	81 23	119 11	SEbS	10.6				82		Str.		
	4	- 24	- 9	SE	11.6	53.6	-12.5	0.6	79	10	Str.		* 2
	6	- 24	- 6	SE	11.0				77	10	Str.		* 2
	8	- 24	- 3	SEbE	11.4	51.8	-15.1	1.1	80	10	Str.		* 2
	10	- 25	- 0	SEbE	14.8		-16.5	1.0	79	10	Cust.		* 2
	Noon	- 25	118 57	SEbE	14.0	50.0	-17.2	0.9	79	10	Str.		* 2
	2	- 26	- 54	SEbE	10.4		-17.2	0.9	78	10	Str.		* 2
	4	- 26	- 51	SEbE	11.6	49.1	-17.1	0.9	78	10	Str.		* 2
	6	- 27	- 49	ESE	12.7		-17.4	0.9	78	10	Str.		* 2
	8	- 27	- 46	ESE	12.3	48.6	-17.9	0.8	78	10°	Cist.		* 2
	10	- 28	- 43	ESE	10.2		-18.5	0.8	78	10°	Cist.		* 2
	Mn.	- 28	- 40	ESE	9.7	48.2	-16.8	0.9	78	10	Str.		* 2
Octb. 13.	2	81 29	118 37	ESE	12.5				81	10°	Cist.		* 2
	4	- 29	- 34	ESE	9.9	48.4	-17.4			10°	Cist.		
	6	- 30	- 31	ESE	10.4				80	10	Cist.		
	8	- 30	- 29	ESE	10.7	49.5	-17.2	0.9	80	10	Cust.	ESE	
	10	- 31	- 26	ESE	12.7		-18.6	0.8	78	10	Cust.	ESE	
	Noon	- 31	- 23	EbS	9.2	50.3	-18.6	0.8	78	10	Str.	ESE	
	2	- 32	- 20	EbS	13.8		-19.4	0.7	76	10	Cicu. Cu.	E	
	4	- 32	- 17	EbS	14.2	50.3	-19.4	0.7	76	10°	Cust.	E	
	6	- 33	- 14	E	13.0		-20.5	0.6	75	10	Cist.		
	8	- 33	- 11	E	9.6	50.2	-21.5	0.6	76	10	Cust.		
	10	- 33	- 7	E	8.2		-22.2	0.6	76	10	Cist.		
	Mn.	- 33	- 2	E	9.4	49.5			76	10	Str.		* 2
Octb. 14.	2	81 33	117 58	EbS	8.1					10	Str.		
	4	- 34	- 54	E	8.1	49.0	-23.9			10	Str.		* 2
	6	- 34	- 49	E	9.5					10	Str.		
	8	- 34	- 45	EbN	8.6	47.9	-23.7	0.5	72	10	Str.		1
	10	- 34	- 41	EbN	8.6		-23.1	0.5	74	10	Str.		
	Noon	- 34	- 36	EbN	9.3	47.1	-23.7	0.5	74	10	Cust.	E	
	2	- 34	- 32	ENE	8.3		-24.4	0.4	70	10	Ci. Cust.	E	2
	4	- 35	- 28	ENE	9.5	46.3	-23.4	0.5	73	10	Ci. Cust.		
	6	- 35	- 23	ENE	10.0		-23.3	0.5	73	10	Str.		3
	8	- 35	- 19	ENE	10.6	44.8	-22.6	0.5	74	10	Str.		4
	10	- 35	- 15	ENE	10.5		-21.4	0.6	74	10	Str.		* 2 5
	Mn.	- 35	- 10	ENE	11.5	43.3				10	Str.		

<sup>1</sup> 8, 10 a. m. and noon. Driving snow from the ground. <sup>2</sup> 2, 4, 6 p. m. Driving snow from the ground. <sup>3</sup> Patch of light round the moon. <sup>4</sup> Driving snow from the ground. Patch of light round the moon. <sup>5</sup> Snow set in motion by the force of the wind.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Octb. 15.	2	81° 35'	117° 6'	ENE	10.6					10	Str.		1 * 2
	4	- 36	- 2	ENE	12.0	741.0				10	Str.		
	6	- 36	116 57	ENE	10.5					10°	Cist.		
	8	- 36	- 53	ENE	8.9	40.0	-13.8	1.3	87	10	Str.		
	10	- 36	- 49	E <sup>b</sup> N	8.0		-12.1	1.5	85	10	Str.		
	Noon	- 36	- 44	E <sup>b</sup> N	8.3	40.1	-13.5	1.3	84	10	Cicu.		
	2	- 36	- 40	E <sup>b</sup> N	9.0		-12.2	1.5	85	10	Str.		
	4	- 37	- 36	SSE	13.8	43.9	-16.6	1.0	80	10	Str.		
	6	- 37	- 31	SSE	8.3		-22.7	0.5	73	10°			m
	8	- 37	- 28	SE <sup>b</sup> E	5.8	48.8	-23.8	0.4	64	0			
	10	- 37	- 26	E	5.2		-24.1	0.4	65	0			
	Mn.	- 38	- 24	E <sup>b</sup> S	5.2	51.3	-24.1	0.5	74	0			
Octb. 16.	2	81 38	116 22	E	6.8				75	10	Str.		
	4	- 38	- 20	E <sup>b</sup> S	6.9	52.7	-15.3	1.0	75	10	Str.		
	6	- 38	- 18	E <sup>b</sup> S	6.6				75	10	Str.		
	8	- 39	- 16	E <sup>b</sup> S	6.2	53.8	-18.0	0.8	76	10	Cust.	SE	
	10	- 39	- 14	E <sup>b</sup> S	5.0		-17.9	0.8	76	10	Cust.	SE	
	Noon	- 39	- 12	ESE	6.2	55.9	-16.5	0.9	76	10	Cu.	SE	
	2	- 39	- 10	SE <sup>b</sup> E	4.7		-20.2	0.7	79	10	Cust.	SE	
	4	- 40	- 7	ESE	3.2	58.4	-19.0	0.8	78	10	Cu.	SE	
	6	- 40	- 5	ESE	5.0		-15.9	1.0	79	10	Str.		
	8	- 40	- 3	E <sup>b</sup> S	6.3	60.4	-16.5	1.0	79	10	Cu.	SE	2
	10	- 41	- 1	E <sup>b</sup> S	5.2		-17.8	0.9	79	10	Cist.	SE	
	Mn.	- 41	115 59	E <sup>b</sup> S	5.8	62.0	-18.1	0.8	78	8			3
Octb. 17.	2	81 41	115 57	E <sup>b</sup> S	4.5		-18.4	0.8	78	1			
	4	- 41	- 55	E <sup>b</sup> S	5.9	63.8	-19.0	0.7	78	4	Cist.		
	6	- 42	- 53	E <sup>b</sup> S	5.4				77	10	Cicu.		
	8	- 42	- 51	ESE	6.7	65.0	-19.9	0.7	76	0	Ci. Cust.		
	10	- 42	- 49	ESE	5.8		-20.3	0.7	75	10			
	Noon	- 43	- 47	E <sup>b</sup> S	6.5	65.7	-19.4	0.7	75	10	Ci. Cust.		
	2	- 43	- 45	SE <sup>b</sup> E	6.8		-18.2	0.8	76	10°	Str.		
	4	- 43	- 43	ESE	5.5	67.3	-19.3	0.7	76	10	Cist.		
	6	- 43	- 41	ESE	4.1		-19.6	0.7	76	10	Cicu.	SE	
	8	- 44	- 40	E <sup>b</sup> S	4.3	67.3	-19.3	0.7	77	10	Cust.	SE	
	10	- 44	- 38	E <sup>b</sup> S	4.1		-17.0	0.9	77		Cust.		
	Mn.	- 44	- 37	E <sup>b</sup> S	4.5	67.0	-17.7	0.9	77	10	Cust.	ESE	
Octb. 18.	2	81 45	115 36	E <sup>b</sup> S	3.0				77	10°	Ci.	E	
	4	- 45	- 35	E	2.8	66.5	-21.2	0.6	77	8	Cist.		
	6	- 46	- 33	E <sup>b</sup> S	2.8				77	10	Cist.		
	8	- 46	- 32	E <sup>b</sup> S	3.3	65.9	-23.0	0.5	76	10	Cust.	E	
	10	- 47	- 31	SE <sup>b</sup> E	4.5		-21.9	0.6	74	10	Cust.		
	Noon	- 47	- 30	SE <sup>b</sup> E	4.5	64.9	-22.4	0.5	74	10	Cust.	SE	
	2	- 47	- 29	SE	3.5		-23.0	0.5	75	10	Cicu.	SE	
	4	- 48	- 27	SE <sup>b</sup> S	2.7	64.5	-27.5	0.4	74	10°	Cicu.	SE	
	6	- 48	- 26	SE <sup>b</sup> S	2.9		-29.2	0.3	74	10°			4
	8	- 49	- 25	S <sup>b</sup> E	2.4	63.8	-30.9	0.2	73	0			5
	10	- 49	- 24	SE <sup>b</sup> S	2.9		-32.1	0.2	72	0			
	Mn.	- 49	- 23	ESE	3.0	62.4	-32.3	0.2	72	0			
Octb. 19.	2	81 50	115 21	ESE	5.0				73	0			
	4	- 50	- 20	ESE	6.2	59.8	-28.1	0.3	74	0			
	6	- 51	- 19	ESE	5.6				74	0			
	8	- 51	- 18	ESE	5.2	57.0	-24.7	0.4	74	8°	Ci.	SW	
	10	- 52	- 16	SE <sup>b</sup> S	9.0		-17.4	0.9	80	10	Cust.	S	6
	Noon	- 52	- 15	SE <sup>b</sup> E	10.5	54.6	-17.0	0.9	80	10	Str.		

<sup>1</sup> 2, 8, 10 a. m. and noon. Driving snow from the ground. <sup>2</sup> Faint  $\mathbb{U}$ . <sup>3</sup>  $\mathbb{U}$ . <sup>4</sup>  $\mathbb{U}$  coloured. <sup>5</sup>  $\mathbb{U}$  Double, bow-coloured. <sup>6</sup> Noon and from 4 p. m. to midn. Driving snow from the ground.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Octb. 19.	2	81°52'	115°14'	SE <sup>b</sup> E	11·5		-17·5	0·8	78	10	Str.		
	4	- 53	- 13	SE	10·7	752·7	-17·3	0·9	79	10	Str.		
	6	- 53	- 12	SE <sup>b</sup> E	11·0		-17·4	0·9	79	10	Str.		
	8	- 54	- 10	SE <sup>b</sup> E	11·8	49·6	-17·3	0·9	78	10	Str.		
	10	- 54	- 9	SE <sup>b</sup> E	12·3		-17·2	0·9	81	10	Cist.		
	Mn.	- 54	- 8	SE	10·0	46·8	-16·1	1·0	80	10	Str.		
Octb. 20.	2	81 55	115 7	SE <sup>b</sup> E	9·0				80	10	Cist.		1
	4	- 55	- 6	SSE	7·8	46·0	-14·6			10	Cist.		
	6	- 56	- 4	S <sup>b</sup> E	8·0				78	0			
	8	- 56	- 3	SSE	6·2	49·1	-25·3	0·4	75	0			
	10	- 57	- 2	SE <sup>b</sup> S	5·8		-26·1	0·4	75	0			
	Noon	- 57	- 1	SE <sup>b</sup> E	6·2	50·0	-26·0	0·4	75	1	Cu.		
	2	- 57	114 59	SE <sup>b</sup> E	6·2		-22·6	0·5	76	10	Cust.		
	4	- 58	- 58	ESE	8·2	49·3	-18·8	0·8	79	10	Str.		2
	6	- 58	- 57	ESE	10·5		-16·7	1·0	80	10	Cust.		
	8	- 59	- 56	ESE	10·0	46·8	-16·4	1·0	81	10	Str.		
	10	- 59	- 55	ESF	12·1		-15·8	1·0	83	10	Str.		
	Mn.	- 59	- 53	SE	11·0	44·9	-14·7	1·2	82	10	Str.		
Octb. 21.	2	82 0	114 52	SE	8·5				82	10	Str.		3
	4	- 0	- 51	S <sup>b</sup> E	6·7	46·7	-21·4	0·6	78	0			
	6	- 0	- 51	S <sup>b</sup> E	5·0		-24·7	0·5	78	0			
	8	- 0	- 51	SE <sup>b</sup> S	4·1	49·5	-27·0	0·4	76	0			
	10	- 0	- 50	SE <sup>b</sup> S	3·9		-27·6	0·3	75	0			
	Noon	- 0	- 50	SE	3·6	51·8	-28·2	0·3	75	10	Cist.		
	2	- 1	- 50	SE	4·2		-26·8	0·4	74	0			
	4	- 1	- 50	SE	4·1	54·2	-28·0	0·3	74	0			
	6	- 1	- 49	SE <sup>b</sup> S	4·5		-28·5	0·3	73	0			
	8	- 1	- 49	SE	2·9	56·9	-29·9	0·3	73	0			
	10	- 1	- 49	SE <sup>b</sup> S	2·0		-30·8	0·2	72	0			
	Mn.	- 1	- 49	SSE	3·4	58·8	-31·6	0·2	72	0			
Octb. 22.	2	82 1	114 49	S <sup>b</sup> E	2·2				71	0			
	4	- 1	- 48	S	2·4	60·2	-34·3	0·2	70	0			
	6	- 1	- 48	S <sup>b</sup> E	0·0				71	0			
	8	- 1	- 48	SE	2·4	61·5	-34·5	0·2	71	0			
	10	- 1	- 48	S	2·3		-34·2	0·2	71	0			
	Noon	- 1	- 47	S	2·4	62·6	-33·6	0·2	70	0			
	2	- 1	- 47	SE <sup>b</sup> S	1·4		-34·2	0·2	70	0			
	4	- 1	- 47	SE <sup>b</sup> S	2·0	63·7	-33·8	0·2	70	0			
	6	- 1	- 47	S <sup>b</sup> E	2·0		-34·0	0·2	70	0			
	8	- 2	- 46	S <sup>b</sup> E	1·6	63·6	-35·6	0·1	69	0			
	10	- 2	- 46	SE <sup>b</sup> S	2·2		-35·6	0·1	69	0			
	Mn.	- 2	- 46	S <sup>b</sup> E	2·4	62·9	-35·0	0·2	70	0			
Octb. 23.	2	82 2	114 46	S <sup>b</sup> E	3·4				71	10	Str.		
	4	- 2	- 46	S <sup>b</sup> E	3·4	61·6	-26·5	0·1	73	10	Str.		
	6	- 2	- 45	S <sup>b</sup> E	4·8				75	10	Str.		
	8	- 2	- 45	SE	4·9	60·5	-21·3	0·6	76	10	Str.		
	10	- 2	- 45	SE	4·4		-21·2	0·6	77	10	Str.		
	Noon	- 2	- 45	S <sup>b</sup> E	4·7	59·8	-20·2	0·7	78	10	Str.		
	2	- 2	- 44	S <sup>b</sup> E	5·9		-19·6	0·8	79	10	Str.		
	4	- 2	- 44	S <sup>b</sup> E	4·8	59·9	-19·3	0·7	79	10	Str.		
	6	- 2	- 44	S	3·0		-19·8	0·7	79	10	Str.		
	8	- 2	- 44	S	4·0	59·6	-19·6	0·8	79	10	Str.		
	10	- 2	- 43	S <sup>b</sup> W	6·4		-20·0	0·7	79	10	Str.		
	Mn.	- 2	- 43	S <sup>b</sup> W	4·4	59·6	-20·4	0·7	80	10	Str.		*°

<sup>1</sup> Driving snow from the ground. <sup>2</sup> From 4 p. m. to midn. Driving snow from the ground. <sup>3</sup> Driving snow from the ground.



1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Octb. 24.	2	82° 3'	114° 43'	S <sup>b</sup> W	3·8		-20·8	0·7	79	10	Str.		
	4	- 3	- 43	S <sup>b</sup> W	3·6	759·4	-21·0	0·7	79	10	Str.		*
	6	- 3	- 43	S <sup>b</sup> W	3·8				77	10	Str.		
	8	- 3	- 42	S <sup>b</sup> W	3·8	59·3	-22·4	0·5	77	10	Str.		*°
	10	- 3	- 42	SW <sup>b</sup> S	3·4		-22·1	0·6	77	10	Str.		
	Noon	- 3	- 42	SW <sup>b</sup> S	3·0	58·8	-21·9	0·6	77	10	Cust.		
	2	- 3	- 42	SW <sup>b</sup> S	3·7		-21·7	0·6	77	10	Str.		
	4	- 3	- 41	SSW	4·4	58·9	-21·8	0·6	77	10	Str.		
	6	- 3	- 41	SW <sup>b</sup> W	4·0		-21·5	0·6	77	10	Str.		
	8	- 3	- 41	SW <sup>b</sup> W	3·8	58·6	-21·4	0·6	77	10	Str.		*°
	10	- 3	- 41	SW <sup>b</sup> W	3·2		-21·6	0·6	77	10	Str.		*°
	Mn.	- 3	- 41	SW <sup>b</sup> S	3·0	58·6	-20·2	0·7	77	10	Str.		
Octb. 25.	2	82 3	114 40	NW <sup>b</sup> W	2·8				79	10°	Cist.		
	4	- 3	- 40	SE <sup>b</sup> E	1·8	58·6	-22·2	0·6	78	10	Cist.		
	6	- 3	- 40	S <sup>b</sup> E	1·8				78	10°	Cist.		
	8	- 4	- 40	SW <sup>b</sup> S	2·9	58·5	-19·7	0·8	78	10	Str.		
	10	- 4	- 39	SW <sup>b</sup> S	3·5		-19·5	0·7	78	10	Cust.	SW	*°
	Noon	- 4	- 39	SW <sup>b</sup> S	3·0	58·3	-18·9	0·8	77	10	Str.		
	2	- 4	- 39	W	2·3		-19·4	0·7	78	10	Cu.	NW	
	4	- 4	- 39	W	1·8	58·7	-20·9	0·7	77	10	Cust.	NW	
	6	- 4	- 38		0		-20·9	0·7	78	10	Str.		
	8	- 4	- 38	NNW	2·6	58·8	-20·6	0·7	78	10	Cist.		
	10	- 4	- 38	N	2·7		-23·9	0·5	78	0			
	Mn.	- 4	- 38		0	59·3	-29·4	0·3	74	0			
Octb. 26.	2	82 4	114 38	N <sup>b</sup> W	0				78	0			
	4	- 4	- 38		0	59·9	-31·7	0·2	72	0			
	6	- 4	- 37	Var.	0				73	0			
	8	- 4	- 37	SW	2·4	59·9	-32·0	0·2	72	9°	Ci.	NE	<sup>1</sup>
	10	- 4	- 37	WSW	3·0		-28·0	0·3	73	10°	Ci.		<sup>2</sup>
	Noon	- 4	- 37	W	2·2	60·0	-28·4	0·3	73	10°	Ci.		
	2	- 4	- 37	W <sup>b</sup> N	3·6		-25·3	0·4	75	10	Cist.		
	4	- 4	- 37	W <sup>b</sup> N	3·8	60·5	-24·4	0·4	76	10	Cist.		
	6	- 4	- 37	WNW	3·8		-22·8	0·5	76	10			m
	8	- 4	- 37	NW	4·0	60·9	-22·4	0·5	76	10			*°m
	10	- 4	- 36	NW	3·7		-25·6	0·4	75	10			*°m
	Mn.	- 4	- 36	NW <sup>b</sup> W	3·5	62·1	-26·8	0·4	75	10			
Octb. 27.	2	82 4	114 36	WNW	3·4				74	10			
	4	- 4	- 36	N <sup>b</sup> W	3·7	61·4	-30·1	0·3	74	0			
	6	- 4	- 36	N <sup>b</sup> W	2·0				72	0			
	8	- 4	- 36	NE <sup>b</sup> E	2·0	61·5	-32·7	0·2	72	0			
	10	- 4	- 36	E	2·7		-33·1	0·2	71	0			
	Noon	- 4	- 36	E	2·5	61·3	-33·7	0·2	71	0			
	2	- 4	- 35	E <sup>b</sup> S	3·0		-33·1	0·2	71	0			
	4	- 4	- 35	E <sup>b</sup> S	2·7	60·4	-33·0	0·2	71	0			
	6	- 4	- 35	E <sup>b</sup> S	3·4		-32·7	0·2	71	0			
	8	- 4	- 35	ESE	4·1	59·1	-32·5	0·2	71	10°			m
	10	- 4	- 32	ESE	6·1		-30·3	0·3	72	10°			m
	Mn.	- 5	- 28	E <sup>b</sup> S	8·3	56·1	-28·4	0·3	72	10	Str.		m
Octb. 28.	2	82 5	114 25	E <sup>b</sup> S	8·4				73	10°			m
	4	- 5	- 22	E <sup>b</sup> S	9·7	52·8	-23·2			10°			m
	6	- 5	- 18	E <sup>b</sup> S	11·3		-23·0	0·5	73	10	Str.		
	8	- 6	- 15	E	11·6	48·0	-22·2	0·6	75	10	Str.		
	10	- 6	- 11	E	13·1		-21·8	0·6	77	10	Str.		
	Noon	- 6	- 8	E	11·7	43·1	-21·1	0·6	70	10	Str.		
	2	- 7	- 4	E	11·2		-20·0	0·7	79	10	Str.		
	4	- 7	- 1	E	11·4	39·6	-19·8	0·7	73	10	Str.		

<sup>1</sup> Cirrus-belts converging towards NE and SW. <sup>2</sup> Quite thin. <sup>3</sup> 4, 8 a. m. and midn. Driving snow from the ground.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Octb. 28.	6	82° 7'	113° 57'	E b N	9.6		-20.0	0.7	73	10	Str.		
	8	- 8	- 54	ENE	10.0	735.7	-19.9	0.7	73	10	Str.		
	10	- 8	- 50	NE	9.7		-20.0	0.7	73	10	Str.		
	Mn.	- 8	- 47	NE	9.4	31.2				10	Str.		
Octb. 29.	2	82 9	113 43	ENE	6.2					10	Str.		*
	4	- 9	- 40	SE b E	7.0	32.2	-21.6			0			
	6	- 9	- 37	SE b E	6.8					0			
	8	- 9	- 33	ESE	7.4	35.1	-23.9	0.5	77	10°	Ci.	E	
	10	- 10	- 30	ESE	5.7		-25.1			0			
	Noon	- 10	- 26	ESE	4.5	37.1	-26.5	0.5	77	10°			m
	2	- 10	- 23	E b S	4.3		-27.1	0.4	74	10°	Cist.		*°
	4	- 11	- 19	E b N	3.8	38.8	-26.4	0.4	74	10	Str.		1
	6	- 11	- 16	E b N	2.8		-25.8	0.4	73	0			m
	8	- 11	- 12	E b N	2.8	39.3	-25.4	0.4	73	10°			*° m
	10	- 11	- 10	NE	2.3		-24.9	0.4	74	10°			
	Mn.	- 11	- 8	NE	4.3	39.4	-22.4	0.5	74	0			
Octb. 30.	2	82 11	113 6	NE	5.8				74	0			2
	4	- 10	- 3	NE b E	6.0	39.7	-22.4	0.5	74	0			m° 3
	6	- 10	- 1	NE b E	7.0				75	0			
	8	- 10	- 59	NE	6.8	40.4	-22.2	0.6	74	10	Cist.		*
	10	- 10	- 57	NE	6.8		-21.9	0.6	74	10	Cicu.		
	Noon	- 10	- 55	NE	7.0	41.7	-20.3	0.7	74	10	Cist.		*°
	2	- 9	- 52	ENE	7.5		-19.8	0.7	75	10	Ci. Cust.		
	4	- 9	- 50	NE	8.0	45.1	-21.1	0.6	73	10	Cust.		*°
	6	- 9	- 48	NE	7.0		-20.8	0.6	73	10	Cist.		*°
	8	- 9	- 46	NE	7.4	47.3	-21.2	0.6	73	0			
	10.15	- 8	- 43	NE	7.5		-23.0	0.5	73	0			
	Mn.	- 8	- 41	N b E	7.2	49.7	-24.1	0.5	73	0			
Octb. 31.	2	82 8	112 39	NNE	7.0		-26.6	0.4	71	0			
	4	- 8	- 37	N	6.8	52.0	-28.8	0.3	71	0			
	6	- 8	- 35	N	6.0		-29.8	0.3	71	0			
	8	- 7	- 32	NNW	5.7	53.5	-29.8	0.3	71	0			
	10	- 7	- 30	NW b N	6.5		-29.7	0.3	70	1	Cu.		
	Noon	- 7	- 28	NW b N	6.0	54.7	-30.7	0.2	70	0			
	2	- 7	- 26	NW	5.4		-31.2	0.2	70	0			
	4	- 7	- 23	NW	5.2	56.1	-31.5	0.2	70	0			
	6	- 6	- 22	NW b W	5.2		-31.9	0.2	70	0			
	8	- 6	- 20	NW b W	4.8	56.6	-32.4	0.2	70	0			
	10	- 6	- 19	NW b W	4.8		-32.3	0.2	70	0			
	Mn.	- 6	- 17	NW b W	5.8	57.0	-31.9	0.2	70	0			
Novb. 1.	2	82 6	112 15	NW b W	5.6				71	0			
	4	- 6	- 14	NW b W	4.2	57.5	-28.6	0.3	70	5	Str.		
	6	- 6	- 12	N	4.2				71	10°	Cist.		
	8	- 6	- 11	N	3.2	58.2	-24.7	0.4	71	0	Cu.	E	
	10	- 6	- 9	N	2.8		-24.0	0.5	71	10	Cu.		
	Noon	- 6	- 7	N	2.0	59.4	-24.4	0.4	71	10	Cust.		
	2	- 6	- 6	NNE	2.5		-23.3	0.5	72	10	Cu.		
	4	- 6	- 4	E b N	3.9	60.5	-22.2	0.5	71	10	Cust.		
	6	- 6	- 2	E b N	3.8		-22.5	0.5	71	10	Str.		
	8	- 6	- 1	E b N	3.8	60.4	-22.6	0.5	71	10	Str.		
	10	- 6	111 59	ENE	4.4		-22.0	0.5	71	10	Str.		*°
	Mn.	- 6	- 58	ENE	3.0	60.4	-21.2	0.6	72	10	Str.		*°
Novb. 2.	2	82 6	111 56	NE b E	3.0				73	10	Str.		*°
	4	- 6	- 54	E b N	3.4	60.9	-20.2	0.7	74	10	Str.		*°
	6	- 6	- 53	E b N	2.6		-19.0	0.7	75	10	Str.		*

<sup>1</sup> Misty horiz. <sup>2</sup> Misty close down to the horiz. <sup>3</sup> Misty on the horiz.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Novb. 2.	8	82° 6'	111° 51'	NE <sup>b</sup> E	3.5	759.7	-19.7	0.7	75	10	Str.		*°
	10	- 6	- 50	NE <sup>b</sup> E	3.7		-19.5	0.7	74	10	Str.		
	Noon	- 6	- 48	E <sup>b</sup> N	3.7	59.7	-19.6	0.7	74	10	Str.		
	2	- 6	- 46	E <sup>b</sup> N	4.4		-19.8	0.7	74	10	Cust.	E	
	4	- 6	- 45	E	4.0	59.8	-20.2	0.7	74	10	Cust.		
	6	- 6	- 43	E	5.2		-21.2	0.7	74	10	Cust.		
	8	- 6	- 42	E <sup>b</sup> S	4.8	60.8	-20.1	0.7	74	10	Str.		
	10	- 6	- 41	ESE	5.5		-20.5	0.6	74	10	Cist.		
	Mn.	- 6	- 40	E	3.6	61.2	-21.2	0.6	74	0			
Novb. 3.	2	82 6	111 38	E	2.6		-26.9	0.4	74	0			m m *°
	4	- 6	- 37	E	4.2	61.8	-28.2	0.3	74	0			
	6	- 6	- 36	E	4.1				73	0			
	8	- 6	- 35	E <sup>b</sup> S	4.3	62.9	-31.8	0.2	72	0			
	10	- 6	- 33	E <sup>b</sup> S	4.0		-32.2	0.2	70	0			
	Noon	- 6	- 32	E <sup>b</sup> S	4.0	63.9	-33.5	0.2	70	0			
	2	- 6	- 31	E	5.0		-33.8	0.1	70	0			
	4	- 6	- 30	E	5.2	65.1	-33.8	0.2	69	0			
	6	- 6	- 28	E <sup>b</sup> S	5.2				70	0			
	8	- 6	- 27	E <sup>b</sup> S	3.6	66.2	-33.3	0.2	70	0			
	10	- 6	- 26	E	4.7		-33.4	0.2	70	0			
	Mn.	- 6	- 25	E	3.8	67.1	-33.3	0.2	70	0			
Novb. 4.	2	82 6	111 23	E	4.8				69	0			m m *°
	4	- 6	- 22	E	3.3	68.0	-34.0	0.2	69	0			
	6	- 6	- 21	E	3.5		-34.1	0.2	69	0			
	8	- 6	- 20	E	2.8	69.2	-35.7	0.2	69	0			
	10	- 6	- 18	E <sup>b</sup> N	2.6		-36.2	0.1	68	0			
	Noon	- 6	- 17	E <sup>b</sup> N	2.3	69.8	-37.2	0.1	68	0			
	2	- 6	- 16	ENE	2.4		-36.4	0.1	68	0			
	4	- 6	- 15	ENE	2.8	70.3	-37.2	0.1	67	0			
	6	- 6	- 13	N <sup>b</sup> W	2.4		-37.2	0.1	68	10°			
	8	- 6	- 12	NW <sup>b</sup> N	2.2	69.3	-35.8	0.1	68	10°			
	10	- 6	- 11	NW <sup>b</sup> N	3.0		-32.1	0.2	70	10	Str.		
	Mn.	- 6	- 10	N <sup>b</sup> W	2.6	68.7	-30.9	0.2	70	5	Str.		
Novb. 5.	2	82 6	111 8	NW <sup>b</sup> N	0.0				70	0			*°
	4	- 6	- 7	NW <sup>b</sup> N	2.6	67.9	-34.3	0.2	70	0			
	6	- 6	- 6	NW <sup>b</sup> W	2.2				70	0			
	8.15	- 6	- 5	N	4.3	66.7	-31.2	0.2	70	0			
	10	- 6	- 3	N <sup>b</sup> W	3.6		-30.0	0.3	70	10	Cust.		
	Noon	- 6	- 2	N <sup>b</sup> W	2.8	66.1	-29.4	0.3	70	10	Cust.		
	2	- 6	- 1	N <sup>b</sup> W	3.2		-28.4	0.3	71	0			
	4	- 6	- 0	NNW	3.8	65.0	-30.4	0.3	71	10°			
	6	- 6	110 59	NW <sup>b</sup> N	3.8		-28.1	0.3	71	10°			
	8	- 6	- 59	NW <sup>b</sup> W	3.0	63.5	-26.9	0.4	72	10			
	10	- 6	- 59	W	2.6		-27.6	0.3	72	10°			
	Mn.	- 6	- 59	W <sup>b</sup> S	2.0	61.6	-28.4	0.3	72	10°			
Novb. 6.	2	82 6	110 59	W	2.2				72	0			1 2 3 4
	4	- 7	- 59	NW <sup>b</sup> W	2.4	59.8	-31.6	0.2	71	0			
	6	- 7	- 59	NE <sup>b</sup> E	2.5				71	0			
	8	- 7	- 59	NE <sup>b</sup> N	2.3	58.6	-35.7	0.1	70	0			
	10	- 7	- 59	NE <sup>b</sup> E	1.8		-36.3	0.1	69	0			
	Noon	- 7	- 59	E <sup>b</sup> N	1.5	57.7	-36.6	0.1	68	0			
	2.15	- 7	- 59	NE <sup>b</sup> N	1.3		-36.4	0.1	69	2	Cicu.	NE	
	4	- 7	- 59	NW <sup>b</sup> N	2.1	57.1	-36.4	0.1	68	10	Cicu.		

<sup>1</sup> m. horiz. <sup>2</sup> Thick bank all along the horiz. <sup>3</sup> Bank of cloud over the eastern sky. <sup>4</sup> A bank came rolling up over the sky, quite even and thick, and sharply defined. In the course of a few minutes, the upper margin of the bank advanced about 5 or 6° up the sky.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Novb. 6.	6	82° 7'	110° 59'	WbN	1.4		-36.6	0.1	69	0			
	8	- 7	- 59	SWbW	1.4	756.5	-37.6	0.1	68	0			
	10	- 7	- 59	SEbS	0.0		-40.0	0.1	68	0			
	Mn.	- 7	- 59	SWbW	1.5	56.4	-38.8	0.1	68	0			
Novb. 7.	2	82 7	110 59	SEbS	0.0		-39.3	0.1	68	0			
	4	- 8	- 59		0	56.1	-35.0	0.2	69	4	Cist.		
	6	- 8	- 59	SWbS	2.2		-31.6	0.2	70	10	Cust.		
	8	- 8	- 59	SSW	3.7	55.9	-30.9	0.2	70	10°	Cicu.		
	10	- 8	- 59	SSE	3.0		-34.3	0.2	69	10°	Cicu.		
	Noon	- 8	- 59	SEbS	3.4	55.8	-35.7	0.1	69	0			
	2	- 8	- 59	SE	3.0		-35.1	0.2	69	10°	Ci.	S	1
	4	- 8	- 59	SE	5.1	55.9	-32.8	0.2	70	10°	Ci.		
	6	- 8	- 59	SEbS	5.0		-31.8	0.2	70	10°	Ci.		
	8	- 8	- 59	SSE	4.6	55.8	-31.7	0.2	70	0			
	10	- 8	- 59	SEbS	5.2		-32.7	0.2	70	10°			m
	Mn.	- 8	- 59	SEbS	5.2	55.8	-33.8	0.2	70	0			
Novb. 8.	2	82 8	110 59	SEbS	4.5				70	0			
	4	- 9	- 59	SEbS	5.6	55.5	-34.5	0.2	69	0			
	6	- 9	- 59	SEbS	5.6				70	0			
	8	- 9	- 59	SEbE	4.6	55.0	-34.5	0.2	69	0			
	10	- 9	- 59	SEbE	5.9		-34.4	0.2	70	0			
	Noon	- 9	- 59	SEbE	6.3	54.7	-34.8	0.2	69	0			
	2	- 9	- 59	SEbE	4.6		-34.8	0.2	69	0			
	4	- 9	- 59	SEbE	5.8	54.3	-34.8	0.2	69	0			
	6	- 9	- 59	SEbE	6.3		-34.8	0.2	69	0			
	8	- 9	- 58	SEbE	6.2	55.1	-34.8	0.2	69	0			
	10	- 9	- 57	SEbE	5.0		-34.7	0.2	69	0			
	Mn.	- 9	- 57	SEbE	5.3	54.2	-34.5	0.2	70	0			
Novb. 9.	2	82 9	110 56	SE	5.4				69	0			
	4	- 10	- 55	SE	5.1	54.6	-34.7	0.2	69	0			
	6	- 10	- 55	SE	4.4				69	0			
	8	- 10	- 54	SE	5.1	54.2	-35.5	0.2	69	0			
	10	- 10	- 53	SE	3.6		-36.4	0.1	69	0			
	Noon	- 10	- 52	SE	3.6	54.2	-36.0	0.1	69	0			
	2	- 10	- 52	ESE	4.4		-35.6	0.1	69	10			
	4	- 10	- 51	ESE	3.4	54.6	-36.1	0.1	69	0			
	6	- 10	- 50	ESE	3.6		-37.0	0.1	69	0			
	8	- 10	- 50	ESE	3.4	54.5	-37.6	0.1	68	0			
	10	- 10	- 49	ESE	3.9		-36.8	0.1	68	0			2
	Mn.	- 11	- 48	ESE	3.9	54.6	-37.0	0.1	69	0			
Novb. 10.	2	81 11	110 47	ESE	2.8				68	0			
	4	- 11	- 47	ESE	3.4	54.4	-37.0	0.1	69	0			
	6	- 11	- 46	ESE	3.4				68	0			
	8	- 11	- 45	ESE	3.8	54.0	-36.7	0.1	68	0			
	10	- 11	- 45	ESE	3.2		-37.2	0.1	68	0			3
	Noon	- 11	- 44	ESE	3.0	53.8	-38.0	0.1	68	0			4
	2	- 11	- 43	EbS	3.4		-37.7	0.1	68	10°			5
	4	- 11	- 42	ESE	3.4	53.7	-37.4	0.1	68	10°	Ci.		m
	6	- 11	- 42	EbS	3.4		-37.0	0.1	68	10°			m
	8	- 11	- 41	ESE	3.8	53.7	-35.6	0.1	68	10°			m
	10	- 11	- 40	ESE	3.7		-36.3	0.1	68	10°	Ci.	ESE & SSE	m
	Mn.	- 11	- 39	ESE	3.4	53.2	-36.3	0.1	68	10°			m

<sup>1</sup> Cirrus-belts converging towards SW to NE. Saw them moving northwards. No drift E to W could be observed. <sup>2</sup> Some low ci. in SW. <sup>3</sup> Detached clouds. <sup>4</sup> Detached cu. in S and E. <sup>5</sup> Some low clouds along the horiz.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Novb. 11.	2	82°11'	110°38'	ESE	4.0				69	0			m <sup>o 1</sup>
	4	- 11	- 37	E <sup>b</sup> S	3.8	753.0	-34.3	0.2	69	0			<sup>2</sup>
	6	- 11	- 36	E	4.4		-33.8	0.2	69	5	Str.		
	8	- 11	- 35	ENE	5.0	52.0	-33.7	0.2	69	10°			* m
	10	- 11	- 34	NE <sup>b</sup> E	5.8		-34.1	0.2	69	10°			* m <sup>3</sup>
	Noon	- 11	- 33	NE <sup>b</sup> E	6.8	50.1	-33.3	0.2	69	10°			* m
	2	- 11	- 32	NE <sup>b</sup> E	5.7		-33.4	0.2	69	10°			m
	4	- 10	- 31	NE <sup>b</sup> E	5.8	49.2	-33.4	0.2	69	10°	Ci.		
	6	- 10	- 30	NE	5.3		-32.0	0.2	70	10	Cist.		
	8	- 10	- 29	NE	5.0	48.1	-31.4	0.2	71	0			
	10	- 10	- 28	NE	5.2		-30.7	0.2	71	10°	Ci. Cist.		
	Mn.	- 10	- 27	NE	5.2	48.7	-29.3	0.3	71	8	Cist.		
Novb. 12.	2	82 10	110 26	NE	4.8				71	0			
	4	- 10	- 25	NE	4.9	49.4	-30.5	0.3	70	0			<sup>4</sup>
	6	- 10	- 24	NE	6.0				72	0			<sup>5</sup>
	8	- 10	- 23	NE	5.4	50.4	-33.1	0.2	70	10°	Ci.		m <sup>6</sup>
	10	- 9	- 22	NE <sup>b</sup> N	5.0		-34.3	0.2	70	0			<sup>7</sup>
	Noon	- 9	- 21	N <sup>b</sup> E	6.3	51.1	-35.1	0.2	70	10°			m <sup>8</sup>
	2	- 9	- 20	NNE	5.8		-35.3	0.2	70	0			
	4	- 9	- 19	N <sup>b</sup> E	4.7	53.2	-36.3	0.1	70	0			
	6	- 9	- 18	N	4.0		-37.1	0.1	69	0			
	8	- 9	- 17	N <sup>b</sup> W	5.3	54.4	-37.4	0.1	69	0			<sup>9</sup>
	10	- 9	- 16	N <sup>b</sup> W	4.6		-37.8	0.1	69	0			
	Mn.	- 9	- 15	N <sup>b</sup> W	4.7	55.6	-37.9	0.1	69	0			
Novb. 13.	2	82 9	110 14	N <sup>b</sup> W	4.1				69	0			
	4	- 9	- 13	N <sup>b</sup> W	4.1	56.6	-37.9	0.1	69	0			<sup>10</sup>
	6	- 8	- 12	NNW	4.4				69	0			
	8	- 8	- 11	NNW	4.7	58.0	-38.7	0.1	69	0			
	10	- 8	- 10	NNW	3.7		-39.3	0.1	69	0			
	Noon	- 8	- 9	NNW	3.0	59.2	-39.1	0.1	69	0			
	2	- 8	- 8	NNW	4.6		-39.2	0.1	69	0			
	4	- 8	- 7	NW	3.6	60.9	-39.5	0.1	69	0			
	6	- 8	- 6	NNW	4.0		-39.3	0.1	68	0			
	8	- 8	- 7	NW <sup>b</sup> N	3.9	62.8	-39.4	0.1	68	0			
	10	- 8	- 8	NW <sup>b</sup> N	3.8		-39.6	0.1	69	0			
	Mn.	- 8	- 9	NNW	4.6	63.6	-39.1	0.1	69	0			
Novb. 14.	2	82 8	110 10	NNW	3.8		-39.9	0.1	68	0			
	4	- 8	- 11	NNW	2.8	64.9	-40.7	0.1	69	0			
	6	- 8	- 12	NW	2.0		-40.7	0.1	69	0			
	8	- 7	- 13	NW <sup>b</sup> W	2.0	65.8	-41.1	0.1	68	10°	Ci.		
	10	- 7	- 14		0		-40.6	0.1	68	10	Ci.		
	Noon	- 7	- 15	E	1.2	66.6	-41.4	0.1	68	0			
	2	- 7	- 16	E <sup>b</sup> S	2.5		-42.1	0.1	68	5°	Ci.		
	4	- 7	- 17	ESE	2.0	68.1	-41.0	0.1	68	0			
	6	- 7	- 18	ESE	1.8		-41.0	0.1	68	0			
	8	- 7	- 19	E	2.4	69.4	-41.2	0.1	68	0			
	10	- 7	- 20	E	2.7		-41.3	0.1	68	0			
	Mn.	- 7	- 21	E	2.0	71.2	-40.9	0.1	68	0			
Novb. 15.	2	82 7	110 22	E <sup>b</sup> N	2.4				68	0			
	4	- 7	- 23	E <sup>b</sup> N	1.8	72.2	-40.6	0.1	68	0			

<sup>1</sup> m horiz. <sup>2</sup> m horiz. <sup>3</sup> Thick banks of cloud round the horiz. <sup>4</sup> At 3.30 a.m. the moon had two mock-moons, looking like indistinct bands of light one on each side, at a distance of about 15° and also a patch of light up towards the zenith at the same distance. A narrow vertical bright band above and below the moon. <sup>5</sup> At 4 a.m. only the vertical band visible. <sup>6</sup>  $\cap$  and a small margin of light round the moon and also a vertical band down to the horiz. <sup>7</sup>  $\cap$ , vertical strip above and below, and two faint mock-moons. <sup>8</sup>  $\cap$ . <sup>9</sup> Strong light in the form of a hay-cock over the horiz. below the moon. <sup>10</sup> 5.30 and 6 p.m. A solid shining bank on the horiz. below the moon. <sup>11</sup>  $\cap$ .

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Novb. 15.	6	82° 7'	110° 24'	E b N	2.0				68	0			1
	8	- 7	- 25	E b N	2.6	773.5	-41.7	0.1	68	0			
	10	- 7	- 26	ENE	1.6		-41.6	0.1	68	0			
	Noon	- 7	- 27	E	1.8	73.8	-41.6	0.1	68	0			2
	2	- 7	- 28	ESE	2.4		-42.0	0.1	69	0			
	4	- 7	- 29	SE	1.8	74.5	-41.9	0.1	68	0			3
	6	- 7	- 30	SE b S	2.0		-42.0	0.1	68	0			
	8	- 7	- 31	SSE	2.4	73.8	-41.6	0.1	68	0			
	10	- 7	- 32	SSW	2.6		-41.5	0.1	68	0			4
	Mn.	- 7	- 33	SSW	3.2	72.4	-41.4	0.1	68	0			
Novb. 16.	2	82 7	110 34	SSW	3.6				68	0			4
	4	- 7	- 35	SSW	3.6	70.5			69	0			
	6	- 6	- 36	SW b S	4.6				69	3	Ci.		
	8	- 6	- 37	SW	5.8	67.2	-35.3	0.2	70	10	Ci. Cust.	WNW	*
	10	- 6	- 38	SW b S	6.3		-31.5	0.2	71	10	Str.		
	Noon	- 6	- 39	SW b S	8.0	66.5	-29.6	0.3	72	10	Str.		
	2	- 6	- 40	SW	6.6		-28.3	0.3	73	10	Cust.		
	4.20	- 6	- 41	SW b W	6.2	66.7	-26.3	0.4	74	10	Str.		
	6	- 6	- 42	WSW	3.8		-25.1	0.4	74	10	Cust.		
	8	- 6	- 43	WNW	3.0	68.0	-28.9	0.3	73	0			
	10	- 6	- 44	W b N	2.9		-26.9	0.4	74	10	Str.		
	Mn.	- 6	- 45	NW	3.6	69.3			74	10	Cist.		
Novb. 17.	2	82 6	110 46	W b N	2.7		-32.6	0.2	72	0			
	4	- 6	- 47	W	2.8	69.8	-34.6	0.2	71	0			
	6	- 6	- 48	WSW	3.7				70	5	Ci.		
	8	- 6	- 49	SW	5.5	68.6	-29.8	0.3	73	10	Str.		
	10	- 6	- 50	SW	7.0		-26.3	0.4	74	10	Str.		
	Noon	- 6	- 51	SW b W	6.0	66.7	-22.9	0.5	75	10	Str.		
	2	- 6	- 52	WSW	6.3		-19.8	0.7	79	10	Str.		
	4	- 6	- 53	WSW	6.6	64.8	-18.0	0.8	80	10	Str.		
	6	- 6	- 54	SW b W	6.0		-17.0	0.9	80	10	Str.		
	8	- 6	- 55	SW b W	7.6	61.8	-19.2	0.8	80	10	Cu.	NNW	
	10	- 6	- 56	SW b W	5.7		-20.5	0.7	80	9	Cu. Cicu.	NW	
	Mn.	- 6	- 58	WSW	8.7	59.4	-18.6	0.8	80	10	Str.		
Novb. 18.	2	82 5	110 59	WSW	7.4				80	10	Cust.		
	4	- 5	111 0	WSW	6.9	57.1			81	10	Str.		
	6	- 5	- 2	SW b W	6.5		-16.3	1.0	82	10	Str.		
	8	- 5	- 3	SW	6.2	57.2	-18.3	0.9	81	10	Ci. Cust.		
	10	- 5	- 5	SW	5.8		-18.1	0.8	80	10	Cist.		
	Noon	- 5	- 6	SW b W	4.5	57.0	-17.7	0.9	80	10	Cist.		
	2	- 5	- 8	WSW	4.5		-18.3	0.8	80	10	Cust.	W	
	4	- 5	- 9	WSW	5.8	57.0	-19.5	0.8	79	10	Ci. Cust.		
	6	- 5	- 10	W b S	7.5		-18.0	0.8	79	10	Str.		
	8	- 5	- 12	W	7.3	57.0	-17.5	0.9	78	10	Str.		
	10	- 5	- 13	WSW	3.9		-19.0	0.7	78	9°	Cicu.	WSW	
	Mn.	- 4	- 15	WSW	3.1	56.9	-19.3	0.7	79	10	Cust.		5
Novb. 19.	2	82 4	111 16	SW b W	3.9				80	10	Str.		* * * * * * * <sup>6</sup>
	4	- 4	- 18	SW	3.6	56.7	-17.7	0.9	79	10	Str.		
	6	- 4	- 19	SW	4.0				80	10	Str.		
	8	- 4	- 21	SW b W	5.6	55.9	-16.0	1.0	81	10	Cist.		
	10	- 4	- 22	SW b W	5.8		-15.7	1.1	80	10	Cist.		
	Noon	- 4	- 24	W b S	4.9	55.7	-15.4	1.1	81	10	Str.		
	2	- 4	- 25	W b S	5.6		-15.6	1.1	81	10	Str.		
	4	- 4	- 26	W	6.6	55.6	-15.7	1.1	81	10	Str.		6

<sup>1</sup> Small coloured  $\mathbb{U}$ . <sup>2</sup> Coloured  $\mathbb{U}$ . <sup>3</sup> 2 coloured  $\mathbb{U}$ . <sup>4</sup> 2 rainbow-coloured  $\mathbb{U}$ . <sup>5</sup> The lane in front of the ship partly open. <sup>6</sup> The lane in front of the ship has opened more to day; is now about 40 m. broad.

1894. Day.	H l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Novb. 19.	6	82° 4'	111° 28'	W <sup>b</sup> N	6.6		-15.9	1.0	80	10	Str.		
	8	- 4	- 29	NW	5.4	756.9	-16.7	1.0	80	10	Str. Cu.	N	
	10	- 3	- 31	NW <sup>b</sup> W	3.6		-19.0	0.8	80	0			
	Mn.	- 3	- 32	NW	5.0	58.9	-20.5	0.7	80	0			
Novb. 20.	2	82 3	111 34	NW <sup>b</sup> W	3.7		-22.1	0.6	80	0			
	4	- 3	- 35	NW	3.8	60.9			78	0			
	6	- 3	- 37	N <sup>b</sup> W	2.0				76	0			
	8	- 3	- 38	NW	2.4	63.2	-27.0	0.4	75	10	Str.		
	10	- 3	- 39	NW	1.8		-25.5	0.4	76	10	Str.		
	Noon	- 3	- 41	N <sup>b</sup> W	1.9	64.7	-24.8	0.4	75	10	Str.		
	2	- 3	- 42	W	2.0		-24.3	0.5	76	10	Str.		
	4	- 3	- 44	SW <sup>b</sup> W	2.8	65.0	-23.0	0.5	76	10	Str.		
	6	- 3	- 45	WSW	4.0		-21.3	0.6	78	10	Str.		
	8	- 3	- 47	W <sup>b</sup> S	5.0	65.3	-20.5	0.7	77	0	Str.		
	10	- 2	- 48	SW	6.8		-20.7	0.7	78	10	Str.		
	Mn.	- 2	- 50	SW	4.1	64.0	-20.5	0.7	78	10°			
Novb. 21.	2	82 2	111 51	SW <sup>b</sup> W	5.8				79	10			
	4	- 2	- 52	SW	7.8	61.8			81	3	Str.		
	6	- 2	- 54	SW <sup>b</sup> S	7.3				80	0			
	8	- 2	- 55	SW <sup>b</sup> S	7.8	58.7	-21.1	0.6	79	0			
	10	- 2	- 57	SSW	9.4		-20.4	0.7	79	10°	Cu.	NW	
	Noon	- 2	- 58	SSW	10.8	55.1	-18.8	0.8	81	10°			m <sup>4</sup>
	2	- 2	112 0	SW <sup>b</sup> S	8.4		-18.7	0.9	81	10°	Cist.		* <sup>o</sup>
	4	- 2	- 1	SW <sup>b</sup> S	9.6	51.5	-15.3	1.1	83	10	Str.		* <sup>o</sup>
	6	- 2	- 3	SW <sup>b</sup> S	7.4		-13.3	1.3	85	10	Str.		* <sup>o</sup>
	8	- 1	- 4	SW	7.3	48.8	-11.7	1.5	87	10	Str.		* <sup>o</sup>
	10	- 1	- 5	WSW	7.5		-11.6	1.6	88	10	Str.		
	Mn.	- 1	- 7	WSW	7.7	47.1	-10.4	1.8	89	10	Str.		
Novb. 22.	2	82 1	112 8	WSW	6.8				89	10	Str.		* <sup>o</sup>
	4	- 1	- 10	W	5.0	45.4	-10.6	1.8	90	10	Str.		* <sup>o</sup>
	6	- 1	- 11	NNE	6.7				90	10	Str.		* <sup>o</sup>
	8	- 1	- 13	NE <sup>b</sup> N	8.3	47.6	-16.4	1.1	88	10	Cist.		* <sup>2</sup>
	10	- 1	- 14	NE <sup>b</sup> N	6.2		-22.0	0.6	80	10			
	Noon	- 1	- 14	NE	8.6	52.2	-22.2	0.6	78	10			* <sup>2</sup>
	2	- 1	- 11	NE	6.9		-30.5	0.3	75	0			
	4	- 0	- 8	NE <sup>b</sup> N	6.7	55.9	-31.8	0.2	74	0			
	6	- 0	- 5	NE <sup>b</sup> N	6.3		-32.1	0.2	75	0			
	8	- 0	- 5	NNE	6.0	58.4	-32.3	0.2	74	0			
	10	- 0	- 4	N <sup>b</sup> W	5.4		-32.6	0.2	73	0			
	Mn.	- 0	- 4	N <sup>b</sup> W	6.0	60.2			74	0			
Novb. 23.	2	82 0	112 4	N <sup>b</sup> W	4.7				75	0			
	4	- 0	- 4	N	4.9	62.3			73	0			
	6	- 0	- 3	N <sup>b</sup> W	5.6				74	0			
	8	81 59	- 3	NW	5.7	63.0	-32.0	0.2	74	10°			m
	10	- 59	- 3	N <sup>b</sup> W	6.0		-32.7	0.2	73	0			
	Noon	- 59	- 2	NNW	3.9	63.2	-32.8	0.2	74	0			
	2	- 59	- 2	N <sup>b</sup> W	3.6		-33.4	0.2	74	0			
	4	- 59	- 2	NNW	4.2	63.6	-33.5	0.2	74	0			
	6	- 59	- 2	NW <sup>b</sup> N	4.1		-33.3	0.2	74	0			
	8	- 59	- 1	N <sup>b</sup> W	3.6	63.2	-33.1	0.2	73	0			
	10	- 59	- 1	WNW	2.4		-33.5	0.2	73	0			
	Mn.	- 59	- 1	SSW	1.4	62.2			73	0			

<sup>1</sup> m° horizon. <sup>2</sup> Two distinct mock-moons. The lane on the starboard bow very broad. <sup>3</sup> A faint remnant of  $\nabla$ . <sup>4</sup> A sharply defined bank of cloud rather dark over the horiz., from SSW to SE about 10° above the horiz. at its highest. <sup>5</sup> m° horiz. <sup>6</sup> Some dark banks of cloud above the southern horiz.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Novb. 24.	2	81° 59'	112° 1'	SSW	2.0				72	0			
	5	- 59	- 0	SW <sup>b</sup> S	3.0	761.1	-33.1	0.2	74	0			
	6	- 58	- 0	SSW	2.4				74	0			
	8	- 58	- 0	SW <sup>b</sup> S	2.2	60.0	-25.1	0.5	77	10	Str.		
	10	- 58	111 59	SSW	2.7		-22.8	0.5	79	10	Str.		
	Noon	- 58	- 59	SSW	4.5	59.4	-22.6	0.5	79	10	Str.		
	2	- 58	- 59	S <sup>b</sup> W	4.6		-22.7	0.5	80	10	Str.		
	4	- 58	- 59	SSW	4.6	58.7	-22.8	0.5	80	10	Str.		
	6	- 58	- 58	S <sup>b</sup> W	5.0		-24.6	0.5	79	10	Str.		
	8	- 58	- 58	S <sup>b</sup> W	4.0	58.6	-27.4	0.4	78	10°			
	10	- 58	- 57	S <sup>b</sup> W	3.4		-31.1	0.3	76	0			
	Mn.	- 58	- 57	SSW	3.7	58.0	-31.1	0.3	75	0			
Novb. 25.	2	81 59	111 55	S	4.8				75	0			
	4	- 59	- 55	S <sup>b</sup> E	4.4	58.3			75	0			
	6	- 59	- 54	S	4.6				75	1°	Ci.		
	8	82 0	- 53	SSE	4.6	58.3	-30.2	0.3	76	0			
	10	- 0	- 52	SSE	4.8		-30.0	0.3	76	0			
	Noon	- 0	- 51	SSE	4.6	58.5	-29.2	0.3	76	0			
	2	- 1	- 50	SSE	5.1		-30.0	0.3	76	0			
	4	- 1	- 49	SSE	5.4	59.0	-30.6	0.3	76	0			
	6	- 1	- 48	SSE	5.5		-31.0	0.1	75	0			
	8	- 2	- 47	SSE	6.1	59.2	-31.2	0.2	75	0			
	10	- 2	- 47	SSE	6.0		-31.5	0.2	75	0			
	Mn.	- 2	- 46	SSE	7.5	60.3			74	0			
Novb. 26.	2	82 3	111 45	SSE	6.2				75	0			
	4	- 3	- 44	SSE	7.2	60.0			75	0			
	6	- 3	- 43	SSE	5.3				75	0			
	8	- 4	- 42	SE <sup>b</sup> S	5.0	60.3	-31.4	0.2	75	0			
	10	- 4	- 41	SE <sup>b</sup> S	6.0		-30.9	0.2	75	0			
	Noon	- 4	- 40	SE <sup>b</sup> S	5.0	61.1	-31.3	0.2	75	0			
	2	- 5	- 39	SE <sup>b</sup> S	4.3		-30.9	0.2	75	0			
	4	- 5	- 39	SE <sup>b</sup> S	4.8	61.9	-31.1	0.2	75	0			
	6	- 5	- 38	SE <sup>b</sup> S	3.6		-31.0	0.2	75	0			
	8	- 6	- 37	SE <sup>b</sup> S	3.6	62.2	-32.6	0.2	75	0			
	10	- 6	- 36	SE <sup>b</sup> S	2.5		-33.1	0.2	75	0			
	Mn.	- 6	- 35	SE <sup>b</sup> S	2.4	63.3	-33.1	0.2	74	0			
Novb. 27.	2	82 7	111 34	SE <sup>b</sup> S	1.5				73	0			
	4.15	- 7	- 33	N	1.6	63.9			74	0			
	6.15	- 7	- 32	NNE	2.2				74	0			
	8	- 8	- 31	NE <sup>b</sup> N	2.7	63.8	-31.2	0.2	74	0			
	10	- 8	- 31	NE <sup>b</sup> N	2.7		-32.9	0.2	74	0			
	Noon	- 8	- 30	NE <sup>b</sup> N	2.5	64.4	-33.9	0.2	73	0			
	2	- 9	- 29	NE	3.0		-35.0	0.2	73	0			
	4	- 9	- 28	NE <sup>b</sup> N	3.0	65.0	-34.9	0.2	73	0			
	6	- 9	- 27	NE <sup>b</sup> N	2.6		-35.5	0.2	73	0			
	8	- 9	- 25	NE	2.7	65.9	-35.2	0.2	73	0			
	10	- 9	- 24	NNE	2.9		-34.8	0.2	72	0			
	Mn.	- 9	- 22	NE <sup>b</sup> N	2.4	66.4			73	0			
Novb. 28.	2	82 9	111 21	NE	2.1				72	0			
	4	- 9	- 19	E	2.0	67.3			72	0			
	6	- 9	- 18	E	2.4				72	0			
	8	- 9	- 16	E <sup>b</sup> N	2.4	68.2	-37.1	0.1	73	0			
	10	- 9	- 14	E	2.4		-37.1	0.1	73	0			
	Noon	- 9	- 13	E <sup>b</sup> S	2.1	69.2	-37.8	0.1	72	0			
	2	- 9	- 11	ESE	2.2		-38.7	0.1	72	0			
	4	- 9	- 10	E <sup>b</sup> S	2.0	70.3	-38.1	0.1	72	0			

<sup>1</sup> Detached narrow str. on the horiz. in WNW to SSW. <sup>2</sup> m° on the horiz. with detached str.



1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Novb. 28.	6	82° 9'	111° 8'	ESE	2.5		-38.1	0.1	72				m°
	8	- 9	- 7	ESE	1.8	770.8	-37.3	0.1	72				m°
	10	- 9	- 5	ESE	1.9		-37.0	0.1	72	10°			m°
	Mn.	- 9	- 4	ESE	2.4	71.2			71	10°			m°
Novb. 29.	2	82 10	111 2	ESE	0.0				71	10°			m°
	4	- 10	- 0		0	71.5			72	10°			m°
	6	- 10	110 59	SE <sup>b</sup> E	2.2				72	10°			m°
	8	- 10	- 57	SE <sup>b</sup> E	2.6	71.8	-36.2	0.1	72	10°			m°
	10	- 10	- 56	SE <sup>b</sup> E	1.9		-36.3	0.1	73	10°			m°
	Noon	- 10	- 54	SE	2.6	72.1	-37.7	0.1	72	10			m°
	2	- 10	- 53	SSE	1.9		-37.0	0.1	72	0			
	4	- 10	- 51	SSE	1.8	72.4	-37.7	0.1	72	0			
	6	- 10	- 49	SSE	1.8		-36.7	0.1	72	0			
	8	- 10	- 49	SSE	1.4	73.9	-36.1	0.1	73	0			
	10	- 10	- 48	SE	1.8		-36.1	0.1	73	0			
	Mn.	- 10	- 47	SE	2.3	73.1			72	0			
Novb. 30.	2	82 10	110 47	SE	2.1				72	10°			m°
	4	- 10	- 46	SE <sup>b</sup> S	1.8	73.5			72	0			
	6	- 10	- 46	ESE	0.0				72	0			
	8	- 10	- 15		0	73.4	-35.4	0.2	73	10°			m°
	10	- 10	- 44	SE <sup>b</sup> E	1.5		-34.3	0.2	73	10°			m°
	Noon	- 10	- 44		0	73.3	-33.3	0.2	74	10			m°
	2	- 10	- 43	E	1.6		-34.1	0.2	74	10°	Cist.		
	4	- 10	- 42	ESE	1.3	73.7	-32.7	0.2	74	10°	Cist.		
	6	- 10	- 42	E	1.8		-32.4	0.2	74	10			m°
	8	- 10	- 41	E <sup>b</sup> N	1.6	73.4	-33.6	0.2	74	10			m°
	10.15	- 10	- 40	ESE	2.6		-34.9	0.2	73	0			
	Mn.	- 10	- 40	E <sup>b</sup> S	1.9	72.4			73	0			
Decb. 1.	2	82 10	110 39	E <sup>b</sup> S	1.8				73	0			
	4	- 10	- 38	ESE	2.2	73.5			72	0			
	6	- 10	- 38	ESE	1.5				72	0			
	8.15	- 10	- 37	E	2.2	73.2	-37.9	0.1	72	0			
	10	- 10	- 37	E	2.2		-37.4	0.1	73	0			
	Noon	- 10	- 36	E	2.6	72.4	-37.2	0.1	72	0			
	2	- 10	- 35	NE	2.8		-36.5	0.1	72	0			m°
	4	- 10	- 35	ENE	2.7	72.2	-35.7	0.1	72	0			
	6	- 10	- 34	NE <sup>b</sup> E	2.6		-34.9	0.2	73	0			
	8	- 10	- 33	NE <sup>b</sup> E	3.5	70.9	-34.8	0.2	73	0			
	10	- 10	- 32	ENE	4.2		-33.9	0.2	74	10°			m
	Mn.	- 10	- 31	NE <sup>b</sup> E	3.8	68.9			74	0			
Decb. 2.	2	82 10	110 30	ENE	4.4				75	0			<sup>1</sup>
	4	- 11	- 29	E <sup>b</sup> S	4.4				75				m <sup>2</sup>
	6	- 11	- 28	ESE	4.0				75	5			
	8	- 11	- 27	ESE	4.2	67.5	-29.2	0.3	76	10	Str.		
	10	- 11	- 26	ESE	3.8		-28.4	0.3	75	10	Str.		* m°
	Noon	- 11	- 25	SE <sup>b</sup> E	3.3	67.3	-30.4	0.3	75	10°			
	2	- 11	- 24	SE	2.2		-30.9	0.2	75	0			
	4	- 11	- 23	SE <sup>b</sup> E	2.5	66.7	-35.3	0.2	74	0			
	6	- 11	- 22	SE <sup>b</sup> E	2.5		-37.1	0.1	73	0			
	8	- 11	- 21	SE <sup>b</sup> E	2.6	66.7	-38.1	0.1	72	0			
	10	- 11	- 20	ESE	3.1		-38.1	0.1	73	0			
	Mn.	- 11	- 18	E <sup>b</sup> S	4.0	66.8			73	0			
Decb. 3.	2	82 12	110 17	E <sup>b</sup> S	4.4				73	4	Str.		
	4	- 12	- 16	ESE	3.4	65.6			73	0			
	6	- 12	- 15	SE <sup>b</sup> E	3.4				73	0			
	8	- 12	- 14	ESE	4.9	65.6	-35.8	0.1	73	0			

<sup>1</sup> m. horiz. <sup>2</sup> m. horiz.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Decb. 3.	10	82° 12'	110° 13'	ESE	3.5		-35.7	0.1	73	0			
	Noon	- 12	- 12	SE <sup>b</sup> E	3.4	765.4	-35.0	0.2	73	0			
	2	- 12	- 11	ESE	4.2		-35.3	0.2	73	0			
	4	- 12	- 10	ESE	3.0	65.3	-35.8	0.1	72	0			
	6	- 12	- 9	SE <sup>b</sup> E	3.9		-35.4	0.2	72	0			
	8	- 12	- 8	SE <sup>b</sup> E	4.2	65.1	-33.4	0.2	74	0			
	10	- 12	- 7	ESE	4.0		-33.1	0.2	74	0			
	Mn.	- 12	- 6	ESE	3.8	65.1			74	0			
Decb. 4.	2	82 12	110 5	SE <sup>b</sup> E	5.1				74	0			
	4	- 13	- 4	SE <sup>b</sup> E	5.7	64.9			74	0			
	6	- 13	- 3	SE <sup>b</sup> E	4.2				74	0			
	8	- 13	- 2	ESE	6.3	64.8	-33.1	0.2	74	10°			m
	10	- 13	- 1	SE <sup>b</sup> E	4.5		-32.8	0.2	74	0			
	Noon	- 13	- 0	ESE	5.0	64.9	-33.1	0.2	74	0			
	2	- 13	109 59	FSE	4.4		-34.2	0.2	74	0			
	4	- 13	- 58	ESE	4.4	65.1	-35.1	0.2	73	0			
	6	- 13	- 56	ESE	4.0		-35.8	0.1	73	0			
	8	- 13	- 54	ESE	4.4	65.5	-36.2	0.1	73	0			
	10	- 14	- 53	ESE	4.7		-36.1	0.1	73	0			
	Mn.	- 14	- 51	ESE	4.1	65.2			73	0			
	2	82 14	109 49	ESE	5.8				73	0			
	4	- 14	- 47	ESE	7.3	64.3			72	0			
Decb. 5.	6	- 15	- 45	SE <sup>b</sup> S	7.0				73	0			
	8	- 15	- 43	SE	6.0	64.3	-32.2	0.2	75	0			
	10	- 15	- 42	SE <sup>b</sup> E	4.3		-33.0	0.2	74	0			
	Noon	- 15	- 40	SE <sup>b</sup> S	5.6	64.5	-32.0	0.2	75	10°			m
	2	- 16	- 38	SE <sup>b</sup> S	7.1		-31.8	0.2	74	10°	Ci.		
	4.15	- 16	- 36	SE	7.3	63.9	-31.8	0.2	75	0			
	6	- 16	- 34	SE <sup>b</sup> S	5.6		-32.8	0.2	74	0			
	8	- 17	- 32	SE	6.6	63.8	-34.0	0.2	74	0			
	10	- 17	- 31	SE	5.4		-34.6	0.2	74	0			
	Mn.	- 17	- 29	SE	6.4	62.6	-35.3	0.2	73	0			
	2	82 18	109 27	SE	5.6				73	0			
	4	- 18	- 25	SE	6.0	61.2			73	0			
Decb. 6.	6	- 18	- 23	SE <sup>b</sup> E	7.0				73	0			
	8.15	- 18	- 22	SE <sup>b</sup> E	7.0	60.1	-33.4	0.2	74	0			
	10	- 19	- 20	SE <sup>b</sup> E	6.5		-32.6	0.2	74	0			
	Noon	- 19	- 18	SE <sup>b</sup> E	6.4	59.8	-31.5	0.2	75	0			
	2	- 19	- 16	SE <sup>b</sup> E	5.8		-31.4	0.2	75	0			
	4	- 20	- 14	SE <sup>b</sup> E	6.2	60.2	-31.5	0.2	75	0			
	6	- 20	- 12	SE <sup>b</sup> E	6.2		-32.1	0.2	74	0			
	8	- 20	- 11	SE <sup>b</sup> E	5.8	60.7	-33.1	0.2	74	0			
	10	- 20	- 10	SE <sup>b</sup> E	5.3		-34.8	0.2	74	0			
	Mn.	- 20	- 9	E	5.6	60.9			73	0			
	2	82 20	109 7	E <sup>b</sup> S	5.1				73	0			
	4	- 20	- 6	E <sup>b</sup> S	4.5	61.8			73	0			
Decb. 7.	6	- 20	- 5	E	5.2				73	0			
	8	- 20	- 4	E	4.8	61.1	-38.6	0.1	72	0			
	10	- 20	- 2	E	4.4		-38.4	0.1	72	0			
	Noon	- 20	- 1	E <sup>b</sup> N	3.4	61.2	-38.4	0.1	72	0			
	2	- 20	- 0	E	4.4		-35.1	0.2	73	10°			
	4	- 20	108 59	E	4.0	61.6	-36.9	0.1	73	10°			m
	6	- 20	- 57	E <sup>b</sup> N	4.2		-36.9	0.1	73	0			
	8	- 20	- 56	E	4.2	61.7	-37.1	0.1	72	0			
	10	- 21	- 55	E	3.8		-36.6	0.1	72	0			
	Mn.	- 21	- 54	E <sup>b</sup> N	4.6	61.9			72	0			

<sup>1</sup> Ci. horiz. <sup>2</sup> Column of light from the moon down to the horizon, and a little way up; also pieces of ☐ near the horiz. <sup>3</sup> Faint radiance under the moon.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Decb. 8.	2	82° 21'	108° 52'	E	3.1				72	0			
	4	- 21	- 51	E <sup>b</sup> N	3.4	762.9			72	0			
	6	- 21	- 50	E <sup>b</sup> N	3.2				72	0			
	8	- 21	- 48	E <sup>b</sup> N	3.2	63.5	-37.5	0.1	72	0			
	10	- 21	- 47	E <sup>b</sup> N	3.6		-38.4	0.1	72	0			
	Noon	- 21	- 46	ENE	3.1	64.3	-38.8	0.1	71	0			
	2	- 21	- 45	E <sup>b</sup> N	3.4		-39.1	0.1	72	0			
	4	- 21	- 43	E <sup>b</sup> N	2.6	64.6	-39.5	0.1	72	0			
	6	- 21	- 42	E <sup>b</sup> N	3.2		-40.2	0.1	72	0			
	8	- 21	- 42	E <sup>b</sup> N	2.6	65.1	-40.0	0.1	71	0			
	10	- 21	- 42	E <sup>b</sup> N	3.6		-40.3	0.1	71	0			
	Mn.	- 31	- 41	E <sup>b</sup> N	2.6	64.5			71	0			
Decb. 9.	2	82 22	108 41	E <sup>b</sup> N	3.2				71	0			
	4	- 22	- 40	E <sup>b</sup> N	2.6	63.8	-41.2	0.1	71	0			
	6	- 22	- 40	E	2.5				72	0			
	8	- 22	- 40	ENE	2.6	62.3	-41.3	0.1	71	0			
	10	- 23	- 39	E <sup>b</sup> N	2.8		-41.2	0.1	71	0			
	Noon	- 23	- 39	ENE	2.7	60.3	-41.9	0.1	71	0			
	2	- 23	- 39	ENE	2.7		-41.7	0.1	70	0			
	4	- 23	- 38	ENE	2.7	58.7	-41.3	0.1	71	0			
	6	- 23	- 38	ENE	3.0		-41.3	0.1	71	0			
	8	- 24	- 37	ENE	3.4	57.4	-39.9	0.1	71	0			
	10	- 24	- 37	ENE	3.6		-40.2	0.1	71	0			
	Mn.	- 24	- 37	ENE	3.0	54.4			72	0			
Decb. 10.	2	82 24	108 36	E	2.7				72	0			
	4	- 24	- 36	E <sup>b</sup> N	2.6	53.2			70	3	Ci.	ENE	
	6	- 25	- 35	E <sup>b</sup> N	2.3				70	0			
	8	- 25	- 35	E <sup>b</sup> N	2.4	52.3	-42.4	0.1	70	0			
	10	- 25	- 35	E <sup>b</sup> N	1.8		-42.4	0.1	70	0			
	Noon	- 25	- 34	ESE	2.1	51.7	-42.3	0.1	71	0			
	2	- 25	- 34	SE	3.0		-40.4	0.1	71	0			
	4	- 26	- 34	SE	4.0	52.3	-40.9	0.1	72	0			
	6	- 26	- 33	SE	4.0		-41.8	0.1	71	0			
	8	- 26	- 33	SE	4.2	52.7	-42.4	0.1	71	0			
	10	- 26	- 32	SE	3.4		-43.4	0.1	71	0			
	Mn.	- 26	- 32	SE	4.0	53.2			70	0			
Decb. 11.	2	82 27	108 32	SE	4.2				70	0			
	4	- 27	- 31	SE	4.0	52.3			70	0			
	6	- 27	- 31	SE	4.6				71	0	Str.		
	8	- 27	- 30	SE <sup>b</sup> S	6.0	51.2	-39.2	0.1	72	10	Cist.		
	10	- 28	- 30	SE <sup>b</sup> S	7.0		-37.1	0.1	73	10	Cist.		* <sup>2</sup>
	Noon	- 28	- 30	SE <sup>b</sup> S	8.4	49.6	-35.1	0.2	73	10	Cist.		* <sup>2</sup>
	2	- 28	- 29	SSE	9.0		-33.6	0.2	74	10	Str.		* <sup>2</sup>
	4	- 28	- 29	SE <sup>b</sup> S	6.6	48.9	-32.4	0.2	74	10	Str.		* <sup>2</sup>
	6	- 28	- 29	SSE	8.1		-32.1	0.2	74	10	Str.		* <sup>2</sup>
	8	- 29	- 28	SSE	7.0	47.2	-30.6	0.2	75	10	Str.		* <sup>2</sup>
	10	- 29	- 28	S <sup>b</sup> E	6.4		-28.6	0.3	77	10	Cist.		* <sup>2</sup>
	Mn.	- 29	- 27	S <sup>b</sup> E	7.2	45.5	-26.1	0.5	77	10	Cist.		* <sup>2</sup>
Decb. 12.	2	82 29	108 27	S <sup>b</sup> E	7.0				77	10	Cist.		* <sup>2</sup>
	4	- 29	- 27	S <sup>b</sup> E	7.4	45.0			77	10	Str.		
	6	- 30	- 26	S <sup>b</sup> E	6.5				77	10	Cist.		* <sup>2</sup>
	8	- 30	- 26	S	7.3	44.4	-27.2	0.4	78	10	Cist.		* <sup>2</sup>
	10	- 30	- 25	S <sup>b</sup> E	5.0		-27.3	0.4	77	10	Cist.		* <sup>2</sup>
	Noon	- 30	- 25	S <sup>b</sup> E	3.0	44.5	-26.9	0.4	78	10	Cist.		
	2	- 30	- 25	E <sup>b</sup> S	3.5		-27.2	0.4	77	10	Cist.		
	4	- 31	- 24	E <sup>b</sup> N	3.3	45.3	-27.1	0.4	77	10	Cist.		

<sup>1</sup> 11 p. m. Few detached low ci. on the horiz. in SSE. <sup>2</sup> Very faint ☽. <sup>3</sup> Faint ☽. <sup>4</sup> Faint ☽. <sup>5</sup> Cist. has lately meant a veil of clouds through which the moon has shone, but no stars have been visible. <sup>6</sup> Faint ☽.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Decb. 12.	6	82° 31'	108° 24'	NE <sup>b</sup> E	4.6		-27.3	0.4	77	10	Cist.		1
	8.15	- 31	- 22	NE	5.4	746.3	-28.1	0.3	75	10	Cist.		
	10	- 31	- 21	NE <sup>b</sup> N	7.3		-30.1	0.3	69	10°	Cist.		
	Mn.	- 31	- 20	NE <sup>b</sup> N	6.5	47.1				3°	Ci.		
Decb. 13.	2	82 31	108 19	NNE	7.7				67	10°	Ci.		2
	4	- 31	- 17	NNE	6.4	48.5			65	10°	Ci.		
	6	- 31	- 16	NNE	6.0				70	5	Ci.		
	8	- 32	- 15	NNE	5.0	49.4	-40.8	0.1	66	0			3
	10	- 32	- 14	NNE	4.4		-41.2	0.1	74	0			
	Noon	- 32	- 12	NNW	5.0	50.5			74	1	Ci.		
	2	- 32	- 11	N <sup>b</sup> W	3.8		-43.0	0.1	64	10°	Ci.		4
	4	- 32	- 10	N <sup>b</sup> W	3.2	51.1	-43.7	0.1	63	10	Cist.		
	6	- 32	- 8	NNE	2.6		-44.4	0.1	63	10	Cist.		
	8	- 32	- 7	NNE	1.8	51.2	-44.5	0.1	63	10°			m
	10	- 32	- 6	NE	2.0		-43.8	0.1	63	10°	Cist.		
	Mn.	- 32	- 5	ENE	1.4	50.6			63	10°	Cist.		
Decb. 14.	2	82 32	108 3	E	2.4				64	10°	Cist.		8
	4	- 32	- 2	ESE	3.0	48.7			64	10	Cist.		
	6	- 33	- 1	ESE	3.8				65	10	Cist.		
	8	- 33	107 59	E <sup>b</sup> S	4.6	46.4	-36.3	0.1	66	10	Cist.		9
	10	- 33	- 58	E <sup>b</sup> S	4.6		-35.4	0.2	66	10	Cist.		
	Noon	- 33	- 57	ESE	5.8	43.8	-35.0	0.2	66	10	Cist.		
	2	- 33	- 56	ESE	4.4		-34.7	0.2	66	10	Cist.		10
	4	- 33	- 54	ESE	5.8	42.6	-33.9	0.2	66	10	Cist.		
	6	- 33	- 53	ESE	5.6		-33.5	0.2	66	10	Cist.		
	8	- 33	- 52	ESE	7.3	41.2	-33.7	0.2	66	10	Cist.		11
	10	- 33	- 50	ESE	4.6		-33.1	0.2	67	10°	Cist.		
	Mn.	- 34	- 49	SE <sup>b</sup> E	5.0	40.8			67	8	Cist.		
Decb. 15.	2	82 34	107 48	SE <sup>b</sup> E	6.3				67	10°	Cist.		14
	4	- 34	- 47	ESE	4.4	41.1			68	10°	Cist.		
	6	- 34	- 45	SE <sup>b</sup> E	4.8				67	0			
	8	- 34	- 44	ESE	3.9	40.7	-34.0	0.2	67	0			m° 15
	10	- 34	- 43	ESE	2.6		-34.2	0.2	66	5	Ci.		
	Noon	- 34	- 42	SE <sup>b</sup> E	5.6	40.9	-29.6	0.3	68	10	Cist.		
	2	- 34	- 40	SE <sup>b</sup> E	5.0		-32.2	0.2	67	0			16
	4	- 34	- 39	SE	6.3	40.9	-32.4	0.2	67	0			
	6	- 35	- 37	SE	6.4		-32.5	0.2	67	0			
	8	- 35	- 33	SE	6.9	40.8	-32.6	0.2	67	0			m° 17
	10	- 36	- 28	SE	9.0		-32.5	0.2	67	10°			
	Mn.	- 37	- 24	SE	10.2	40.3			67	0			
Decb. 16.	2	82 37	107 19	SE	12.4				67	10°			m <sup>18</sup>
	4	- 38	- 15	SE	10.2	40.4			68	10°			
	6	- 39	- 11	SE	14.0				62	10°			
	8	- 39	- 6	SE	12.0	40.3	-33.1	0.2	67	10°			m <sup>2</sup> m
	10	- 40	- 2	SE	12.3		-32.7	0.2	66	10°			
	Noon	- 41	106 57	SE <sup>b</sup> S	13.2	40.5	-32.4			10°			
	2	- 41	- 53	SE <sup>b</sup> S	15.9		-32.3			10	Str.		m <sup>2</sup>
	4	- 42	- 49	SE <sup>b</sup> S	13.2	41.0	-32.8			10	Str.		
	6	- 43	- 44	SE <sup>b</sup> S	13.0		-32.8			10	Str.		
	8	- 43	- 40	SE	11.7	41.5	-32.9			10°	Cist.		m <sup>2</sup>
	10	- 44	- 36	SE	11.3		-32.9			10°	Cist.		
	Mn.	- 45	- 31	SE	12.0	42.1			9	Cist.			

<sup>1</sup> Very bright ☐, faint rose-coloured on the inner side. Midn. ☐. <sup>2</sup> ☐. <sup>3</sup> The upper  $\frac{3}{4}$  of a ☐. <sup>4</sup> Rainbow-coloured ☐. <sup>5</sup> Rainbow-coloured ☐ and ☐. <sup>6</sup> ☐ with a secondary bow on the upper limb and a patch of light underneath. Faint colour. <sup>7</sup> ☐ and indications of a similar ring on the lower edge. <sup>8</sup> The faint upper half of ☐. <sup>9</sup> The upper half of ☐. <sup>10</sup> Faint upper half of ☐. <sup>11</sup> Faint upper half of ☐. <sup>12</sup> ☐. <sup>13</sup> ☐. <sup>14</sup> ☐. <sup>15</sup> Faint ☐. <sup>16</sup> ☐. <sup>17</sup> ☐. <sup>18</sup> 2, 4, 8 a.m. and noon. Faint ☐.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Decb. 17.	2	82° 45'	106° 27'	SE	12.2					8	Cist.		* <sup>2</sup>
	4	- 46	- 22	SE	11.0					10	Cist.		1
	6	- 47	- 18	SE <sup>b</sup> E	10.8					10	Cist.		
	8	- 47	- 14	E <sup>b</sup> S	9.3	743.8	-37.7			10	Cist.		2
	10	- 48	- 9	E <sup>b</sup> S	8.6		-38.0			10	Cist.		m°
	Noon	- 49	- 5	ESE	10.4	45.2	-38.4			10			m°
	2	- 49	- 1	E <sup>b</sup> S	8.2		-39.1			10°	Cist.		
	4	- 50	105 56	E <sup>b</sup> S	8.0	46.2	-39.3			10°	Cist.		
	6	- 51	- 52	E <sup>b</sup> S	8.0		-39.9			10			
	8	- 51	- 50	E <sup>b</sup> S	7.5	46.7	-39.8			10°			
	10	- 51	- 47	E	6.0		-40.2			0			
	Mn.	- 51	- 44	E	9.5	47.5	-40.2			0			
Decb. 18.	2	82 51	105 41	E	2.8		-40.2			0			
	4	- 51	- 38	E	6.0	48.5	-39.4			0			
	6	- 51	- 36	E	5.6		-39.1			0			
	8	- 51	- 33	E	4.7	49.8	-39.9			0			
	10	- 51	- 30	E	4.0		-40.0			0			
	Noon	- 51	- 27	E <sup>b</sup> N	4.0	51.2	-42.0			0			
	2	- 51	- 24	E	3.7		-42.2			0			
	4	- 51	- 21	ENE	3.5	51.4	-41.7			0	Cist.		3
	6	- 51	- 19	ENE	4.5		-38.2			0			
	8	- 51	- 16	NE <sup>b</sup> E	3.0	51.5	-37.3			0			
	10	- 51	- 13	E <sup>b</sup> N	3.0		-35.6			10°			* <sup>2</sup> m
	Mn.	- 51	- 10	ESE	5.3	51.8	-34.4			10°			m
Decb. 19.	2	82 51	105 7	ESE	4.2		-35.7	0.1	63	8	Cist.		
	4	- 51	- 5	SE <sup>b</sup> E	4.4	52.6			64	0			
	6	- 51	- 2	E <sup>b</sup> N	4.0				63	0			
	8	- 51	104 59	E <sup>b</sup> N	4.1	53.4	-39.8	0.1	64	0			
	10	- 51	- 56	E <sup>b</sup> N	4.4		-39.4	0.1	65	0			
	Noon	- 51	- 53	E <sup>b</sup> N	5.5	53.8	-38.9	0.1	65	0			
	2	- 51	- 50	E <sup>b</sup> N	4.8		-39.1	0.1	64	0			
	4	- 51	- 48	ENE	5.7	54.2	-39.1	0.1	65	0			
	6	- 51	- 45	E <sup>b</sup> N	4.8		-38.1	0.1	65	0			
	8	- 51	- 43	E	5.3	55.2	-36.1	0.1	66	0			
	10	- 51	- 41	E <sup>b</sup> N	3.6		-39.0	0.1	65	0			
	Mn.	- 51	- 40	E <sup>b</sup> N	5.4	56.0			66	0			
Decb. 20.	2	82 51	104 38	E	4.6				66	0			
	4	- 51	- 36	E	4.2	57.5			66	0			
	6	- 51	- 35	E	5.0				67				
	8	- 52	- 33	E	4.4	58.8	-35.6	0.1	67	10°			4
	10	- 52	- 31	E	5.3		-34.4	0.2	67	0			m°
	Noon	- 52	- 30	E <sup>b</sup> S	5.6	59.6	-33.3	0.2	68	10°			m°
	2	- 52	- 28	E	4.1		-35.1	0.2	68	0			
	4.30	- 52	- 26	ESE	4.5	60.4	-36.6	0.1	68	0			
	6	- 52	- 25	ESE	4.7		-36.1	0.1	69	0			
	8	- 53	- 23	ESE	4.8	60.8	-37.1	0.1	69	0			
	10	- 53	- 21	SE <sup>b</sup> E	4.9		-36.9	0.1	69	0			
	Mn.	- 53	- 20	SE	5.2	60.8			69	0			
Decb. 21.	2	82 53	104 18	SE	5.0				69	0			
	4	- 53	- 16	SE	4.0	61.0	-38.6	0.1	69	0			
	6	- 53	- 15	SSE	4.1				69	0			
	8	- 54	- 13	SSE	4.1	61.0	-40.5	0.1	69	0			
	10	- 54	- 11	S <sup>b</sup> E	4.2		-41.0	0.1	68	0			
	Noon	- 54	- 10	S <sup>b</sup> E	4.5	60.8	-40.9	0.1	68	0			
	2	- 54	- 8	SSE	3.5		-41.4	0.1	68	0			
	4	- 54	- 6	SSE	5.1	59.6	-41.2	0.1	69	0			

<sup>1</sup> 4, 6, 8, 10 a. m. and noon. Driving snow from the ground. <sup>2</sup> 8, 10 a. m., noon, 2, 4 p. m. Faint ☐. <sup>3</sup> Banks of cloud on the horiz. in NNE. <sup>4</sup> m. at zenith, str. on the horiz.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Decb. 21.	6	82° 54'	104° 5'	SSE	5.1	756.8	-41.3	0.1	69	0			1
	8	- 55	- 3	SSE	5.7		-40.8	0.1	68	0			
	10	- 55	- 0	SSE	7.6		-39.4	0.1	68	0			
	Mn.	- 56	103 57	SSE	7.0				69	0			
Decb. 22.	2	82 57	103 54	SSE	10.1	48.9			69	0			2
	4	- 57	- 51	SSE	10.4				70	0			
	6	- 58	- 48	SE <sup>b</sup> S	10.5				70	0			
	8	- 59	- 45	SSE	12.8	43.6	-33.5	0.2	71	10	Cist.		
	10	- 59	- 42	SSE	13.6		-31.6	0.2	70	10	Str.		
	Noon	83 0	- 40	SSE	14.8		-30.6	0.2	71	10	Str.		
	2	- 1	- 37	SSE	12.8	36.1	-29.5	0.3	71	10	Str.		
	4	- 1	- 34	SSE	15.5		-28.6	0.3	72	10	Str.		
	6	- 2	- 31	SSE	14.4		-28.1	0.3	75	10	Str.		
	8	- 3	- 28	SSE	13.8	34.1	-28.1	0.3	75	10	Str.		
	10	- 3	- 25	SE <sup>b</sup> S	11.9		-28.1	0.3	82	10	Cist.		
	Mn.	- 4	- 22	SE <sup>b</sup> S	12.4				80	10	Str.		
	2	83 5	103 19	SE <sup>b</sup> S	11.6	32.1			80	10	Str.		3
	4	- 5	- 16	SE <sup>b</sup> S	11.1				83	10	Str.		
	6	- 6	- 13	SE <sup>b</sup> S	11.0				82	10	Str.		
	8.15	- 7	- 10	SE <sup>b</sup> S	10.9	30.9	-26.0	0.5	86	10	Str.		* <sup>2</sup>
	10	- 7	- 8	SE <sup>b</sup> S	13.4		-25.5	0.5	84	10	Str.		
	Noon	- 8	- 5	SE <sup>b</sup> S	12.0		-25.0	0.5	88	10	Str.		
	2	- 9	- 2	SE <sup>b</sup> S	14.7	27.1	-24.1	0.6	87	10	Str.		* <sup>2 4</sup>
	4	- 9	102 59	SSE	13.4		-23.2	0.6	85	10	Str.		
	6	- 10	- 56	SSE	10.6		-22.1	0.6	87	10	Str.		
	8	- 11	- 53	SSE	11.6	27.2	-21.4	0.7	86	10	Str.		* <sup>2</sup>
	10	- 11	- 50	SSE	9.2		-21.8	0.7	87	10	Str.		
	Mn.	- 12	- 47	SSE	10.0		-23.1	0.6	83	10	Str.		
Decb. 24.	2	83 12	102 44	SSE	10.9	28.4	-22.4	0.6	87	10	Str.		* <sup>2</sup>
	4	- 13	- 42	SE <sup>b</sup> E	12.9		-23.3	0.6	92	10	Str.		
	6	- 14	- 39	SE <sup>b</sup> E	10.0		-27.1			10	Str.		
	8	- 14	- 36	SE <sup>b</sup> E	11.8	27.6	-23.8	0.5	86	10	Str.		* <sup>2 7</sup>
	10	- 15	- 33	SE <sup>b</sup> E	11.8		-24.1	0.6	88	10	Str.		
	Noon	- 16	- 30	SE <sup>b</sup> E	11.0		-23.6	0.6	86	10	Str.		
	2	- 16	- 27	SE <sup>b</sup> E	12.2	29.4	-24.7	0.5	85	10°	Cist.		* <sup>2</sup>
	4	- 17	- 24	SE <sup>b</sup> E	12.5		-24.1	0.6	87	10	Str.		
	6	- 18	- 21	SE <sup>b</sup> E	12.4		-24.0	0.5	85	10	Str.		
	8	- 18	- 18	SE <sup>b</sup> E	10.0	30.1	-23.4	0.6	89	10	Str.		* <sup>2</sup>
	10	- 19	- 15	SE <sup>b</sup> E	8.6		-23.1	0.6	88	10	Str.		
	Mn.	- 20	- 13	ESE	6.7		-23.6	0.6	88	10	Str.		
Decb. 25.	2	83 20	102 10	SE <sup>b</sup> E	6.4	36.2	-20.7	0.8	91	10	Str.		
	4	- 21	- 7	SE <sup>b</sup> E	6.6		-21.9	0.7	90	10	Str.		
	6	- 22	- 4	SE <sup>b</sup> E	7.8		-22.6	0.7	89	10	Str.		
	8.15	- 22	- 1	ESE	6.5	36.5	-23.7	0.6	87	10	Str.		
	10	- 23	101 58	ESE	6.8		-26.6	0.5	86	10°	Cist.		
	Noon	- 23	- 55	ESE	7.0		-28.1	0.4	85	10°	Cist.		

<sup>1</sup> The air this afternoon has been clearer, and the stars have shone with greater brilliancy than we are accustomed to in clear weather. <sup>2</sup> 6 a. m. to midn. Driving snow from the ground. <sup>3</sup> 2, 4, 10 a. m. and noon. Driving snow from the ground. <sup>4</sup> During this gale it has been impossible to decide whether it has been precipitation or only driving snow from the ground. It seems, however, to be to some extent precipitation as the masses of snow are tolerably large, and the snow moreover is rather soft. <sup>5</sup> Took in all the instruments from the screen, because a fissure had opened in the ice in immediate proximity to the screen. The hygrometer and the long thermometer were hung up in the screen on board. The hygrometer was then at 92°. <sup>6</sup> The hygrometer indicated 97.5. After having cleaned the snow from the pulley the hygrometer stood at 94.0. <sup>7</sup> After cleaning of the hygrometer. <sup>8</sup> The hygrometer showed 91.5°. Stuck fast; after being cleaned up it showed 89.5. <sup>9</sup> Hygr. ca. 93. Stuck fast at 97; impossible to keep clean.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Decb. 25.	2	83°24'	101°50'	ESE	6.3		-29.5	0.3	85	10°	Cist.		
	4	- 24	- 45	ESE	5.0	739.3	-31.2	0.3	84	0			
	6	- 24	- 47	E	5.2		-32.8	0.2	83	0			
	8	- 24	- 48	E <sup>b</sup> N	4.6	40.7	-33.3	0.2	83	0			
	10	- 24	- 50	ENE	4.3		-32.4	0.3	82	0			
	Mn.	- 24	- 52	ENE	3.5	42.1	-33.0	0.3	83	0			
Decb. 26.	2	83 23	101 54	E	3.5		-34.4	0.2	83	10°			
	4	- 23	- 55	E	4.2	43.5	-35.9	0.2	81	0			
	6	- 23	- 57	ENE	4.0		-37.2	0.2	81	0			
	8.15	- 23	- 59	ENE	3.7	44.4	-37.7	0.1	82	0			
	10	- 23	102 1	NE <sup>b</sup> E	3.2		-38.0	0.1	82	0			
	Noon	- 23	- 2	NE	3.1	45.2	-37.5	0.1	74	0			
	2	- 23	- 4	NE <sup>b</sup> E	4.2		-36.3	0.1	72	0			
	4	- 23	- 6	ENE	3.7	45.5	-35.6	0.1	72	0			
	6	- 23	- 7	E	4.2		-34.8	0.2	72	0			
	8	- 23	- 9	E <sup>b</sup> N	3.8	45.7	-35.7	0.1	72	0			
	10	- 23	- 11	ENE	4.0		-34.5	0.2	71	10	Cist.		
	Mn.	- 23	- 13	ENE	4.6	45.9			71	10°	Ci.		
Decb. 27.	2	83 23	102 14	ENE	3.1				71	10°			m
	4	- 23	- 16	NE <sup>b</sup> E	3.0	45.2			71	0			
	6	- 22	- 18	NE <sup>b</sup> E	4.0				71	10	Cist.		
	8.15	- 22	- 20	N <sup>b</sup> E	2.8	44.9	-35.0	0.2	72	0			
	10	- 22	- 21	N <sup>b</sup> E	2.5		-36.8	0.1	70	0			
	Noon	- 22	- 23	N <sup>b</sup> E	2.8	44.2	-35.1	0.2	71	0			
	2	- 22	- 25	NNW	3.6		-35.3	0.2	71	0			
	4	- 22	- 26	NW <sup>b</sup> W	3.4	43.1	-34.1	0.2	70	0			
	6	- 22	- 26	NW <sup>b</sup> N	6.3		-33.1	0.2	73	10°	Cist.		
	8	- 22	- 25	NNW	6.4	40.9	-33.5	0.2	72	10°	Cist.		
	10	- 22	- 23	NNW	6.0		-34.1	0.2	71	10°	Cist.		
	Mn.	- 22	- 22	W	5.4	39.4			70		Str. Cist.		m <sup>3</sup>
Decb. 28.	2	83 21	102 21	W	6.0				71	0			
	4	- 21	- 19	W	6.0	37.7	-33.3	0.2	70	0			
	6	- 21	- 18	W	5.0				70	0			
	8	- 21	- 16	W	5.3	36.1	-33.2	0.2	70	0			
	10	- 21	- 15	W	5.3		-32.4	0.2	70	10°	Cist.		
	Noon	- 21	- 14	W	5.6	34.8	-32.1	0.2	70	10°			m°
	2	- 21	- 12	W	5.3		-32.6	0.2	70	10°	Cist.		
	4	- 20	- 11	W	6.2	34.5	-32.6	0.2	70	10°			m°
	6	- 20	- 10	W <sup>b</sup> S	5.1		-33.1	0.2	70	0			
	8	- 20	- 8	W <sup>b</sup> S	8.0	33.4	-31.4	0.2	70	10°	Cist.		
	10	- 20	- 7	W <sup>b</sup> S	6.6		-29.9	0.3	71	10	Str.		*
	Mn.	- 20	- 6	WSW	7.1	32.4			72	10	Str.		
Decb. 29.	2	83 20	102 4	SW	8.4		-29.9	0.3	72	10	Cist.		
	4	- 20	- 3	SW	7.6	31.5	-27.8	0.2	73	10	Cist.		
	6	- 19	- 1	SW	8.6				73	10°	Cist.		
	8	- 19	- 0	SW	6.7	31.0	-27.5	0.4	74	10	Cist.		*
	10	- 19	101 59	SW	7.4		-27.1	0.4	74	10°	Cist.		
	Noon	- 19	- 57	SW	5.1	31.2	-26.4	0.4	75	10	Cist.		
	2	- 19	- 56	SW <sup>b</sup> S	5.5		-26.4	0.4	75	10°	Cist.		
	4	- 19	- 55	WSW	2.9	32.5	-27.1	0.4	75	10°			m
	6	- 19	- 55	W <sup>b</sup> S	4.0		-27.8	0.3	73	0			
	8	- 19	- 56	W <sup>b</sup> S	3.6	34.1	-31.4	0.2	72	0			
	10	- 19	- 57	SW <sup>b</sup> W	5.9		-31.3	0.2	72	10°	Cist.		
	Mn.	- 19	- 58	W <sup>b</sup> S	4.4	36.9			70	0			

<sup>1</sup> Unusually clear. <sup>2</sup> After the observation, 10 p. m., hung up the instruments in the screen on the ice. Started the thermograph. Set the max. and min. therm. Cleaned the hygrometer in the chartroom where the air was probably saturated with moisture, as the walls, roof, and floor are covered with  $\text{—}$ . Hygrometer 98.3 to 98.5. <sup>3</sup> m. zenith. Str., cist. on the horiz.

1894. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Decb. 30.	2	83° 19'	101° 59'	SW <sup>b</sup> W	4.4				70	0			
	4	- 19	102 1	SW <sup>b</sup> W	5.0	739.6			70	0			
	6	- 19	- 2	SW <sup>b</sup> W	5.0		-40.2	0.1	69	0			
	8	- 19	- 3	SW	5.3	41.4	-40.7	0.1	69	0			
	10	- 20	- 4	SW <sup>b</sup> S	4.2		-41.2	0.1	69	0			
	Noon	- 20	- 6	SSW	4.6	44.0	-41.7	0.1	69	0			
	2	- 20	- 7	SSW	6.3		-41.9	0.1	69	0			
	4	- 20	- 8	SSW	4.8	45.6	-42.2	0.1	68	0			
	6	- 20	- 9	SW <sup>b</sup> S	5.1		-42.5	0.1	69	0			
	8	- 20	- 11	SSW	6.0	47.3	-42.5	0.1	68	0			
	10	- 20	- 12	SSW	4.6		-42.4	0.1	69	0			
	Mn.	- 20	- 13	SSW	4.8	48.9	-42.6	0.1	68	0			
Decb. 31.	2	83 20	102 14	SSW	5.0				68	0			
	4	- 20	- 15	SSW	5.5				68	0			
	6	- 20	- 17	SSW	5.2				69	0			
	8	- 21	- 18	SW <sup>b</sup> S	5.1	52.1	-42.5	0.1	68	0			
	10	- 21	- 19	SSW	4.7		-42.4	0.1	68	0			
	Noon	- 21	- 20	SSW	4.7	53.9	-42.6	0.1	68	0			
	2	- 21	- 21	SSW	4.6		-43.2	0.1	68	0			
	4	- 21	- 23	SSW	5.3	55.9	-42.8	0.1	68	0			
	6	- 21	- 23	SSW	5.0		-42.9	0.1	68	0			
	8	- 21	- 24	SSW	4.4	57.4	-43.1	0.1	68	0			
	10	- 21	- 25	SW <sup>b</sup> S	4.3		-43.2	0.1	68	0			
	Mn.	- 21	- 25	SW <sup>b</sup> S	5.2	59.0	-42.5	0.1	68	0			
1895. Day. Jan. 1.	2	83 21	102 26	SW <sup>b</sup> S	5.2				68	0			
	4	- 22	- 27	S <sup>b</sup> W	5.2	60.1	-42.5	0.1	69	0			
	6	- 22	- 27	S <sup>b</sup> W	5.7		-41.5	0.1	68	0			
	8	- 22	- 28	S <sup>b</sup> W	5.8	61.9	-41.3	0.1	69	0			
	10	- 22	- 28	S <sup>b</sup> W	6.0		-41.6	0.1	69	0			
	Noon	- 22	- 29	S <sup>b</sup> W	6.0	62.8	-41.7	0.1	69	0			
	2	- 22	- 30	S <sup>b</sup> W	4.3		-42.0	0.1	69	0			
	4	- 22	- 30	S <sup>b</sup> W	5.9	64.7	-41.5	0.1	69	0			
	6	- 22	- 31	S <sup>b</sup> W	4.7		-41.3	0.1	70	0			
	8	- 23	- 31	S <sup>b</sup> W	4.2	65.7	-40.2	0.1	70	0			
	10	- 23	- 32	S <sup>b</sup> W	4.2		-39.1	0.1	70	0			
	Mn.	- 23	- 33	S <sup>b</sup> W	5.1	66.4	-39.1	0.1	70	0			
Jan. 2.	2	83 23	102 33	SSW	4.1		-38.7	0.1	70	0			
	4	- 23	- 34	SSW	3.0	66.8	-38.3	0.1	70	0			
	6	- 23	- 34	SSW	3.6		-35.9	0.1	70	10°	Ci.		
	8	- 23	- 35	S	3.4	67.5	-35.0	0.2	71	10°	Cist.		
	10	- 23	- 36	S	2.8		-33.8	0.2	72	0			
	Noon	- 24	- 36	S	2.4	68.6	-33.5	0.2	72	10°			
	2	- 24	- 37	WSW	3.6		-31.2	0.2	73	10°	Cist.		
	4	- 24	- 37	WSW	3.0	70.1	-33.1	0.2	73	0			
	6	- 24	- 38	SW <sup>b</sup> S	2.2		-34.4	0.2	72	0			
	8	- 24	- 39	SW	3.1	71.2	-35.0	0.2	72	0			
	10	- 24	- 39	SW	3.0		-36.2	0.1	71	0			
	Mn.	- 24	- 40	SW <sup>b</sup> S	3.4	71.7	-37.1	0.1	70	0			
Jan. 3.	2	83 24	102 41	SW	3.0		-37.6	0.1	70	0			
	4	- 25	- 41	SW <sup>b</sup> S	2.8	71.9	-37.3	0.1	71	0			
	6	- 25	- 42	SSW	3.5		-34.9	0.2	71	10°	Cist.		
	8	- 25	- 42	S <sup>b</sup> W	4.4	71.5	-33.1			10°	Cist.		

<sup>1</sup> Unusually clear. <sup>2</sup> 5.30 a.m. On account of threatening screwing, the thermograph was taken on board together with Tonnelot, which has been read off in the screen on board. <sup>3</sup> As there was considerable screwing at some few feet from the screen on the ice, the other instruments were not read off, but were taken on board.



1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 3.	10	83° 25'	102° 43'	S b W	4.8		-32.8	0.2	71	0			
	Noon	- 25	- 44	S b W	4.7	771.4	-31.4	0.2	67	0			
	2	- 25	- 44	S b W	4.9		-29.8	0.2	65	0			1
	4	- 25	- 45	S b W	5.4	70.5	-28.4	0.3	67	0			
	6	- 26	- 46	S b W	5.5		-27.9	0.3	67	10°			
	8	- 26	- 47	S b W	6.0	70.1	-27.4	0.4	70	10°	Str.		* <sup>2</sup>
	10	- 26	- 48	SW b W	6.7		-27.1	0.4	69	10°	Str.		2
	Mn.	- 26	- 49	SW b W	4.9	68.6	-27.5	0.4	70	10	Str.		*
Jan. 4.	2	83 27	102 49	SSW	3.0		-27.9	0.3	71	10	Ci.		
	4	- 27	- 50	SW b W	4.5	67.9	-27.6	0.3	70	10	Str.		*
	6	- 27	- 51	SW	3.6		-27.2	0.4	71	8	Str.		*
	8	- 27	- 52	SW	2.4	67.1	-27.6	0.3	71	10°	Cist.		
	10	- 27	- 53		0		-28.3	0.3	70	5	Cist. Cu.		
	Noon	- 28	- 53	S	1.9	66.7	-28.2	0.3	73	9	Cicu.		3
	2	- 28	- 54	S b W	2.4		-28.1	0.3	74	9°	Cicu.	N	
	4	- 28	- 55	S	1.6	65.9	-29.2	0.3	73	9°	Cicu.		
	6	- 28	- 56	S b E	2.8		-29.6	0.3	72	9°	Cist.		
	8	- 29	- 56	S b E	1.9	64.8	-28.3	0.3	72	9°	Cist.		
	10	- 29	- 57	S b E	0.0		-28.4	0.3	73	8°	Cicu.		
	Mn.	- 29	- 58	S b W	3.0	64.6	-28.3	0.3	73	9°	Cicu.		
Jan. 5.	2	83 29	102 59	S b W	2.4				72	10	Cist.		
	4	- 30	103 0	S b W	3.2	63.4	-27.6	0.3	73		Cist.		
	8	- 30	- 1	SSW	4.0		-23.2	0.5	76	10	Str.		4
	Noon	- 30	- 3	SE b S	2.5	60.1	-21.1	0.6	79	10	Str.		* <sup>o</sup>
	4	- 31	- 4	S b W	3.8	60.1	-20.1	0.7	80	10	Str.		* <sup>o</sup>
	6	- 31	- 5	S	3.8		-20.1	0.7	80	10	Cicu.		* <sup>o</sup>
	8	- 31	- 6	S b W		59.2	-19.2	0.8	81	10°	Cicu. Str.		
	Mn.	- 32	- 7	S b W	6.0				81	10	Cist.		
Jan. 6.	2	83 32	103 8	S b W	6.0					10	Cist.		5
	10.20	- 33	- 11	S b W	9.4		-19.1	0.8	82	5°	Cist.		
	Noon	- 33	- 12	S b W	6.8	59.8	-22.2	0.6	80	7°	Ci.		6
	2.15	- 33	- 13	S b W	6.1		-23.3	0.5	79	9°	Ci.		
	4.15	- 34	- 13	S b E	6.4	61.5	-23.5	0.5	78	8°	Ci.		
	6	- 34	- 13	S b E	5.4		-22.9	0.6	84	6°	Ci.		
	8	- 34	- 12	SE b S	5.6	61.1	-24.7	0.5	83	0			
	10	- 35	- 12	SE b S	5.1		-25.5	0.5	77	0			
	Mn.	- 35	- 12	SE b S	4.0		-23.1	0.5	78	7	Str.		
Jan. 7.	2	83 35	103 11	SE b S	4.4	62.0	-26.1	0.5	77	10°	Cist.		
	4	- 35	- 11	SE b S	5.0	62.0	-25.9	0.5	76	7	Cicu.		
	6	- 35	- 11	SE b S	6.2		-24.1	0.5	77	10°	Ci.		
	8	- 35	- 10	SE b S	5.1	61.6	-26.5	0.5	77	0			
	10	- 36	- 10	SE b S	3.8		-27.3	0.4	76	0			
	Noon	- 36	- 10	SE b S	5.8	60.9	-27.4	0.4	75	0			
	2	- 36	- 9	SE b S	7.0		-27.6	0.4	76	0			
	4	- 36	- 9	SE b S	5.7	60.6	-27.9	0.4	76	0			
	6	- 36	- 9	SE b S	6.8		-27.3	0.4	76	3	Cicu.	S	
	8	- 37	- 8	SE b S	5.7	60.3	-26.9	0.4	76	0			7
	10	- 37	- 8	SE b S	5.6		-27.9	0.3	75	2	Ci.		
	Mn.	- 37	- 8	SE b S	5.0	59.3	-27.2	0.4	75	10	Cist.	S	
Jan. 8.	2	- 37	103 8	SE b S	3.1		-25.3	0.5	76	10	Str.		* <sup>2</sup>
	4	- 37	- 7	SSE	4.6	58.7	-24.8	0.5	76	10	Str.		*

<sup>1</sup> m. horiz. <sup>2</sup> Busy carrying provisions on to the ice on account of screwing. <sup>3</sup> The thermometer-screen was placed temporarily on the after-deck, and all the observation-instruments were hung up in their places. Max. and min. thermometers set. At 12.25 p. m. the thermograph was opened to dry the glass. <sup>4</sup> Owing to the hard work entailed by clearing the ship on account of threatening screwing, the observations were taken every 4 hours. <sup>5</sup> Observations prevented by violent screwing. <sup>6</sup> Cirrus-belts converging N and S. <sup>7</sup> Under the moon on the horiz. a radiance like a half-disc.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 8.	6	83° 37'	103° 7'	SSE	4.2		-24.6		77	10	Str.		
	8	- 38	- 7	SbE	4.3	757.6	-24.8	0.4	77	10	Str.		
	10	- 38	- 6	SbE	3.7		-24.5	0.5	77	10	Str.		
	Noon	- 38	- 6	SEbS	3.7	56.3	-24.5	0.5	77	10	Str.		
	2	- 38	- 6	SSE	4.4		-24.8	0.5	77	10	Str.		
	4	- 38	- 5	SEbS	3.4	55.4	-24.8	0.5	77	10	Str.		
	6	- 39	- 5	SEbS	4.2		-24.2	0.5	77	10	Str.		
	8	- 39	- 5	SE	4.7	55.2	-24.4	0.5	77	10	Str.		
	10	- 39	- 4	SE	4.2		-24.5	0.5	77	10	Cist.		
	Mn.	- 39	- 4	SE	4.2	54.2	-25.0	0.5	76	10	Cist.		
Jan. 9.	2	83 39	103 4	SEbE	4.8		-24.9	0.5	77	10	Cist.		
	4	- 39	- 3	SEbE	4.7	53.1	-25.7	0.5	76	10°	Cist.		
	6	- 40	- 3	SEbE	2.8		-27.3	0.4	76	10°	Cist.		
	8	- 40	- 3	EbN	3.2	53.4	-30.6	0.2	75	10°	Ci.	NE	*
	10	- 40	- 2	E	2.7		-32.5	0.2	73	10°	Ci.		1
	Noon	- 40	- 2	ENE	2.0	54.7	-32.6	0.2	74	10°	Ci. Cist.	NE	2
	2	- 40	- 2		0		-32.7	0.2	73	10°	Cust.		3
	4	- 41	- 1	ENE	2.1	55.6	-30.6	0.2	73	10°	Cist.		4
	6	- 41	- 1	E	2.5		-30.0	0.3	73	10	Cist.		5
	8	- 41	- 1	EbN	1.6	57.1	-34.1	0.2	73	0			
	10	- 41	- 0	EbN	0.0		-32.5	0.2	73	10°	Cist.		
	Mn.	- 41	- 0	EbN	1.4	58.6	-31.1	0.2	73	10°			m
Jan. 10.	2	83 41	102 59	NEbE	1.6		-30.6	0.2	74	10			m
	4	- 41	- 59	NEbE	1.6	60.6	-33.8	0.2	72	0			
	6	- 41	- 59	NEbE	1.7				72	0			
	8	- 41	- 58	NEbN	1.6	62.0	-36.8	0.1	72	0			
	10	- 41	- 58	NbE	0.0		-33.3	0.1	71	0			
	Noon	- 41	- 58	NEbE	0.0	63.8	-38.8	0.1	70	0			
	2	- 41	- 57	WbN	0.0		-39.1	0.1	71	0			
	4	- 41	- 57	WbN	0.0	64.9	-38.8	0.1	70	0			
	6	- 41	- 56	SEbS	0.0		-36.1	0.1	70	0			
	8	- 41	- 56	SbW	2.7	65.7	-33.9	0.2	73	10			m
	10	- 41	- 56	SbW	2.2		-30.8	0.2	73	10	Cist.		
	Mn.	- 41	- 55	S	2.6	65.2	-30.0	0.3	74	10	Cist.		
Jan. 11.	2	83 41	102 55	S	3.2				72	0			
	4	- 41	- 54	SbW	3.8	64.7	-29.6	0.3	74	3	Str.		
	6	- 41	- 54	S	4.0		-30.8	0.2	73	8	Cist.		
	8	- 41	- 54	SbE	4.7	63.5	-29.2	0.3	75	10	Cist.		
	10	- 41	- 53	S	6.9		-28.1	0.3	75	0			
	Noon	- 41	- 53	SbW	7.6	61.0	-25.0	0.4	75	0			
	2	- 41	- 52	SbE	9.2		-24.2	0.5	77	10°	Cist.		
	4	- 41	- 52	SbE	12.3	58.7	-22.5	0.5	78	10°	Cist.		
	6	- 41	- 52	SbE	9.1		-22.2	0.6	81	10	Str.		
	8	- 41	- 51	SbE	10.0	54.8	-22.5	0.6	83	10	Str.		
Jan. 12.	10	- 41	- 51	SbW	11.5		-21.5	0.7	87	10	Cist.		
	Mn.	- 41	- 51	S	10.4	51.0			82	10	Str.		
	2	83 41	102 50	S	8.9		-18.9		10		Cist.		
	4	- 41	- 50	S	10.6	47.9	-16.5		10		Str.		*
	6	- 41	- 49	SbE	9.2		-14.0	1.4	93	10	Str.		
	8	- 41	- 49	SWbS	7.4	44.5	-12.0	1.6	92	10	Str.		
	10	- 41	- 49	NWbN	11.0		-26.5	0.5	85	10	Cust.	W	* <sup>2</sup>
	Noon	- 41	- 48	NW	8.3	47.4	-27.4	0.4	82	10°			m <sup>9</sup>
	2	- 41	- 48	NW	6.7		-30.8	0.3	81	0			
	4	- 41	- 47	NW	7.3	49.5	-31.9	0.3	80	0			10

<sup>1</sup> Cirrus-belts converging NW and SE. <sup>2</sup> ☐. <sup>3</sup> Faint ☐. <sup>4</sup> Some ci.-stripes in NW to SE. ☐. <sup>5</sup> 4, 6 p. m. ☐. <sup>6</sup> 10 a. m. to midn. Driving snow from the ground. <sup>7</sup> ☐. <sup>8</sup> 11:30 a. m. ☐. <sup>9</sup> Noon, 2 p. m. ☐. <sup>10</sup> ☐. Only the upper edge and the sides distinct.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 12.	6	83° 41'	102° 49'	W	8.3		-31.6	0.3	79	0			1
	8	- 40	- 50	W	8.0	749.5	-31.4	0.3	77	8	Ci.		
	10	- 40	- 52	W	8.7		-31.0	0.3	77	10	Ci. Cist.		
	Mn.	- 39	- 54	W	8.8	48.4	-30.4	0.3	76	10°	Cist.		
Jan. 13.	2	83 38	102 55	W b N	9.0				77	10	Cist.		m
	4	- 38	- 57	WNW	9.2	48.4			76	10	Cist.		
	6	- 37	- 58	NW b W	9.0				75	10	Cist.		
	8	- 37	103 0	NW b W	6.6	48.3	-32.1	0.3	77	10	Ci.		
	10	- 36	- 2	NW b W	7.3		-31.9	0.2	75	10	Str.		
	Noon	- 35	- 3	NW b W	8.4	48.2	-33.3	0.2	75	10			
	2	- 35	- 5	WNW	8.8		-33.4	0.2	74	6	Ci.		
	4	- 34	- 7	WNW	8.1	48.6	-33.1	0.2	74	0			
	6	- 34	- 8	NW b W	7.4		-34.1	0.2	73	0			
	8	- 33	- 10	NW	9.0	49.3	-33.2	0.2	73	10	Str.		
	10	- 32	- 11	NW	9.3		-34.2	0.2	72	0			
	Mn.	- 32	- 13	NW	9.5	49.9			72	7	Str.		
Jan. 14.	2	83 31	103 15	WNW	7.8				71	1	Ci.	NW	
	4	- 31	- 16	WNW	6.8	51.2			71	1	Ci.		
	6	- 30	- 18	WNW	7.4				71	10°	Ci.		
	8	- 29	- 20	WNW	7.8	51.9	-37.1	0.1	70	10°	Ci.		
	10	- 29	- 21	WNW	6.3		-37.8	0.1	70	3	Ci.		
	Noon	- 28	- 23	WNW	5.3	52.8	-37.8	0.1	69	3	Ci.		
	2	- 28	- 24	WNW	5.2				69	5°	Ci.		
	4	- 27	- 26	WNW	4.3	53.3			68	3°	Ci.		
	6	- 28	- 32	WNW	4.1				67	0			
	8	- 28	- 38	W b N	3.0	52.6	-39.1	0.1	68	0			
	10	- 28	- 37	W b S	2.1		-41.2	0.1	68	0			
	Mn.	- 28	- 36		0	50.9	-41.6	0.1	68	0			
Jan. 15.	2	83 28	103 35		0		-41.6	0.1	68	0			
	4	- 27	- 34	E b S	0.0	49.5	-42.0	0.1	67	0			
	6	- 27	- 33	ESE	2.2		-42.6	0.1	67	0			
	8	- 27	- 32	ENE	2.4	48.0	-43.0	0.1	67	0			
	10	- 27	- 31	E b S	2.5		-42.9	0.1	67	0			
	Noon	- 27	- 30	E b S	2.9	47.0	-42.5	0.1	67	0			
	2	- 27	- 29	ENE	3.4		-42.3	0.1	67	0			
	4	- 27	- 28	ENE	3.8	46.9	-41.9	0.1	67	0			
	6	- 26	- 27	NE b E	3.3		-42.5	0.1	67	0			
	8	- 26	- 26	NE b N	4.6	46.9	-43.0	0.1	67	0			
	10	- 26	- 24	NE b N	4.3		-43.2	0.1	68	0			
	Mn.	- 26	- 23	N b E	4.6	47.4			67	0			
Jan. 16.	2	83 26	103 22	NNE	5.8				68	0		Ci.	
	4	- 26	- 21	N b E	5.6	48.0	-42.2	0.1	67	2			
	6	- 25	- 20	N	5.0		-41.7	0.1	67	0			
	8	- 25	- 19	NNW	5.6	48.3	-41.2	0.1	68	0			
	10	- 25	- 18	NNW	6.6		-41.0	0.1	67	0			
	Noon	- 25	- 17	NW	7.3	49.2	-41.1	0.1	67	0			
	2	- 25	- 16	NW	7.5		-40.9	0.1	68	0			
	4	- 25	- 15	NW b W	6.7	49.9	-40.9	0.1	68	0			
	6	- 25	- 14	NW b W	6.3		-41.0	0.1	68	0			
	8	- 24	- 13	W b N	5.4	50.0	-40.8	0.1	68	0			
	10	- 24	- 12	W b N	4.4		-41.2	0.1	68	0			
	Mn.	- 24	- 11	W b N	5.3	50.2	-41.2	0.1	68	0			
Jan. 17.	2	83 24	103 9	W b N	5.4		-40.2	0.1	69	0		Cist.	m
	4	- 24	- 8	W b N	5.6	50.3	-40.0	0.1	69	0			
	6	- 24	- 7	W b N	4.8		-40.0	0.1	69	10			
	8	- 24	- 6	W b S	4.6	50.1	-40.2	0.1	69	10°			

<sup>1</sup> U rainbow-coloured. <sup>2</sup> 8, 10 p. m. Driving snow from the ground.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 17.	10	83° 24'	103° 5'	W <sup>b</sup> S	5.6		-40.5	0.1	68	10	Cist.		m
	Noon	- 23	- 4	W <sup>b</sup> S	4.8	750.6	-41.2	0.1	68	10°			
	2	- 23	- 3	W <sup>b</sup> S	3.8		-42.7	0.1	67	0			
	4	- 23	- 2	SW	3.7	51.3	-44.2	0.1	67	0			
	6	- 23	102 59	SSW	4.0		-45.1	0.1	67	0			
	8	- 23	- 57	S <sup>b</sup> W	2.0	52.1	-45.6	0.1	67	0			
	10	- 24	- 54	SW <sup>b</sup> S	2.3		-46.2	0.1	67	0			
	Mn.	- 24	- 51	S <sup>b</sup> W	1.6	53.5	-46.5	0.1	67	0			
Jan. 18.	2	83 24	102 49	SE <sup>b</sup> S	1.8				66	0			m
	4	- 24	- 46	SE <sup>b</sup> S	1.6	55.5			66	0			
	6	- 24	- 43	SE <sup>b</sup> E	2.2				67	0			
	8	- 24	- 41	E <sup>b</sup> S	2.2	59.4	-44.7	0.1	67	0			
	10	- 24	- 38	E	2.0		-44.5	0.1	67	0			
	Noon	- 24	- 35	E	2.5	60.4	-44.9	0.1	67	0			
	2	- 24	- 33	NE <sup>b</sup> E	2.4		-44.2	0.1	67	0			
	4	- 25	- 30	ENE	2.9	60.3	-42.0	0.1	68	10°			
	6	- 25	- 28	ENE	2.5		-40.5	0.1	68	0			
	8	- 25	- 25	NE <sup>b</sup> E	3.0	60.3	-39.5	0.1	69	0			
	10	- 25	- 22	NE	4.0		-38.7	0.1	69	0			
	Mn.	- 25	- 20	ENE	3.9	59.8			69	0			
Jan. 19.	2	83 25	102 17	E <sup>b</sup> N	5.8		-37.1	0.1	69	0			m
	4	- 25	- 14	E <sup>b</sup> N	5.5	61.1			70	0			
	6	- 25	- 12	E <sup>b</sup> N	4.7		-37.1	0.1	71	0			
	8	- 25	- 9	ENE	5.8	62.3	-37.3	0.1	71	0			
	10	- 26	- 6	E <sup>b</sup> N	5.7		-37.3	0.1	70	0			
	Noon	- 26	- 4	E <sup>b</sup> N	4.3	63.9	-38.1	0.1	70	0			
	2	- 26	- 1	ENE	3.8		-39.1	0.1	69	0			
	4	- 26	- 0	E <sup>b</sup> N	3.8	66.0	-39.1	0.1	69	0			
	6	- 26	- 0	ENE	3.4		-38.8	0.1	69	0			
	8	- 25	- 0	NE <sup>b</sup> E	3.9	67.3	-36.5	0.1	70	0			
	10	- 25	- 1	NE	3.6		-35.3	0.2	70	0			
	Mn.	- 25	- 1	NE	3.6	67.9	-35.2	0.2	70	0			
Jan. 20.	2	83 25	102 1	NE <sup>b</sup> N	3.5				71	0			m
	4	- 25	- 1	NNE	4.4	68.1			71	0			
	6	- 25	- 2	NNE	4.2				70	0			
	8	- 25	- 2	NNE	4.7	68.8	-35.7	0.1	71	0			
	10	- 25	- 2	NNE	3.8		-36.2	0.1	70	0			
	Noon	- 24	- 3	N <sup>b</sup> E	4.4	69.3	-36.3	0.1	70	0			
	2	- 24	- 3	N <sup>b</sup> E	5.1		-36.6	0.1	70	0			
	4	- 24	- 3	N	4.1	70.0	-36.9	0.1	70	0			
	6	- 24	- 3	N <sup>b</sup> W	3.5		-37.0	0.1	70	0			
	8	- 24	- 4	WNW	4.0	69.7	-36.2	0.1	70	0			
	10	- 24	- 4	WNW	5.1		-35.1	0.2	71	0			
	Mn.	- 24	- 4	NW <sup>b</sup> W	5.5	68.4	-34.3	0.2	71	0			
Jan. 21.	2	83 24	102 5	WNW	5.0				71	0			m
	4	- 23	- 5	WNW	5.2	67.2			71	0			
	6	- 23	- 5	WNW	7.4				71	0			
	8	- 23	- 6	NW <sup>b</sup> W	6.4	66.4	-34.0	0.2	71	10°	Cist.		
	10	- 23	- 6	NW <sup>b</sup> W	6.1		-34.3	0.2	71	0			
	Noon	- 23	- 6	NW <sup>b</sup> W	5.1	65.9	-35.0	0.2	71	0			
	2	- 23	- 6	WNW	5.4		-35.2	0.2	71	10°	Cist.		
	4	- 23	- 7	WNW	4.7	65.4	-36.1	0.1	70	0			
	6	- 23	- 7	WNW	2.9		-36.6	0.1	70	0			
	8	- 23	- 7	WNW	4.0	64.8	-36.4	0.1	70	0			
	10	- 23	- 8	WNW	4.0		-36.1	0.1	70	10°			
	Mn.	- 23	- 8	W <sup>b</sup> N	5.2	63.2			70	10°			
Jan. 22.	2	83 23	102 8	W <sup>b</sup> N	5.1				71	0			m° m°
	4	- 23	- 9	WSW	4.0	62.0			71	10°			
	6	- 23	- 9	SW	3.3				70	10°			



1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 27.	2	83° 26'	102° 15'	S b E	3.4				68	0			m°
	4	- 26	- 16	S b E	4.6	771.6			69	10°			
	6	- 26	- 17	S	4.0					10°	Str.		*°
	8	- 27	- 18	SSE	4.8	71.7	-28.5	0.3	72	10°	Cist.		*°
	10	- 27	- 19	SSE	4.4		-27.7	0.3	73	10°	Str.		
	Noon	- 27	- 20	S b E	4.4	71.6	-26.4	0.4	73	10°	Str.		
	2	- 27	- 21	S b E	6.0		-26.5	0.4	74	10°	Cist.		
	4	- 27	- 22	S b E	6.0	72.0	-27.1	0.4	74	10°	Cist.		
	6	- 28	- 23	S b E	5.5		-27.6	0.3	74	10°	Cist.		
	8	- 28	- 24	S b E	4.2	71.7	-27.1	0.4	73	10°	Str.		
	10	- 28	- 25	S	4.5		-26.5	0.4	74	5°	Cist.		
	Mn.	- 28	- 25	S b W	5.8	71.5			74	10°	Str.		
Jan. 28.	2	83 28	102 26	S b W	7.3				74	10	Str.		m
	4.15	- 29	- 27	SSW	3.8	72.7			72	1	Cu.		
	6	- 29	- 28	S	4.1				72	10°			
	8	- 29	- 29	S b W	4.5	73.6	-26.6	0.4	73	10°	Cist.		
	10	- 29	- 30	S b W	3.2		-25.3	0.4	74	10°	Cist.		
	Noon	- 29	- 31	S b E	3.8	74.4	-26.8	0.4	74	0			
	2	- 30	- 32	S	3.6		-28.2	0.3	74	0			2
	4	- 30	- 33	S	3.6	75.3	-28.8			0			3
	6	- 30	- 34	SE b E	4.0		-29.9			0			
	8	- 30	- 36	SE b E	4.4	75.0	-30.8			0			
	10	- 31	- 37	SE	5.4		-32.4	0.2	66	0			4
	Mn.	- 31	- 38	SE b S	5.0	74.3			68	0			5
Jan. 29.	2	83 31	102 39	SE b S	5.8				69	0			
	4	- 32	- 40	SE b S	4.8	73.5			60	0			
	6	- 32	- 42	SE b S	4.0				61	0			
	8	- 32	- 43	SE b E	4.3	72.5	-34.8	0.1	61	0			
	10	- 33	- 44	SE b E	4.1		-34.3	0.2	62	0			
	Noon	- 33	- 45	SE b S	3.4	71.1	-34.3	0.2	62	0			
	2	- 33	- 46	S b E	5.0		-34.3	0.2	62	0			
	4	- 33	- 48	S b E	4.4	70.8	-34.7	0.1	63	0			
	6	- 34	- 49	S b E	3.6		-35.5	0.1	63	0			
	8	- 34	- 50	S b E	3.8	71.5	-35.1	0.1	63	0			
	10	- 34	- 51	S b E	4.4		-35.0	0.1	63	0			
	Mn.	- 35	- 52	S b E	4.2	71.7			64	0			
Jan. 30.	2	83 35	102 54	S b E	3.5				63	0			m
	4	- 35	- 55	SE b S	3.8	71.2			64	0			
	6	- 36	- 56	SSE	5.3				64	10°			
	8	- 36	- 57	SE	4.4	70.3	-26.7	0.3	64	0			
	10	- 36	- 58	SE b S	7.6		-29.0	0.3	65	10°			*°
	Noon	- 37	103 0	SSE	6.8	69.5	-26.5	0.4	69	10°	Str.		*°
	2	- 37	- 1	SSE	7.2		-25.0	0.4	71	10°	Str.		*°
	4	- 37	- 2	SSE	9.6	68.1	-23.6	0.5	74	10°	Str.		*°
	6	- 37	- 3	SSE	9.5		-21.9	0.6	77	10°	Str.		*°
	8	- 38	- 4	SSE	6.4	67.4	-20.0	0.7	76	10°	Str.		*°
	10	- 38	- 6	S b W	8.8		-20.1	0.7	78	10°	Str.		*°
	Mn.	- 38	- 7	S	8.8	68.1			80	10°	Str.		*°
Jan. 31.	2	83 39	103 8	S	7.6				81	10	Str.		*°
	4	- 39	- 9	S	6.8	68.6			82	10	Str.		*°
	6	- 39	- 10	S b W	6.4				83	10	Str.		*°
	8	- 40	- 12	S b W	6.6	69.3	-19.0	0.8	82	10	Str.		*°
	10	- 40	- 13	S b W	5.8		-19.6	0.8	80	10	Str.		*°
	Noon	- 40	- 14	S b E	7.3	70.5	-19.7	0.8	81	10	Str.		*°

<sup>1</sup> Clearing up in S between SE and NW. <sup>2</sup> Removed the screen out on to the ice again. <sup>3</sup> Took the hygrometer in to clean it. <sup>4</sup> Hung the hygrometer out again. The adjusting-screw not touched. Showed about 43 when it was hung out. <sup>5</sup> The screen with the instruments in it was placed on the ice abreast of the fore channels 34 paces from the ship's side. <sup>6</sup> 11 a. m. \*. <sup>7</sup> 5 a. m. \*.

1895. Day.	H l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 31.	2.15	83° 41'	103° 15'	S <sup>b</sup> E	6.6		-22.5	0.6	81	10	Cust.	SW	* <sup>2</sup>
	4	- 41	- 16	S <sup>b</sup> E	6.1	77.6	-24.5	0.5	80	10			m <sup>o</sup>
	6	- 41	- 17	SSE	6.3		-25.3	0.5	79	10			m <sup>o</sup>
	8	- 41	- 16	SSE	4.7	73.0	-26.3	0.5	79	10	Cist.		
	10	- 41	- 15	SSE	5.8		-26.3	0.5	79	10	Str.		*
	Mn.	- 41	- 14	SSE	4.9	73.9			78	10°	Cist.		
Febr. 1.	2	83 42	103 13	SSE	6.8				78	0			
	4	- 42	- 12	SE <sup>b</sup> S	5.0	75.3			78				
	6	- 42	- 11	SSE	4.0				77	0			
	8	- 42	- 11	SE <sup>b</sup> S	4.8	76.5	-32.1	0.3	78	10°	Cist.		
	10	- 42	- 10	SE <sup>b</sup> S	5.0		-32.0	0.3	78	0			
	Noon	- 42	- 9	SE <sup>b</sup> S	4.2	77.4	-33.8	0.2	76	0			
	2	- 42	- 8	SE <sup>b</sup> S	4.4		-35.1	0.2	75	0			
	4	- 42	- 7	SE <sup>b</sup> S	3.5	78.6	-35.8	0.2	75	0			
	6	- 42	- 6	SE	3.5		-36.7	0.1	75	0			
	8	- 42	- 5	SE	3.0	79.5	-37.1	0.1	75	0			
	10	- 43	- 5	E <sup>b</sup> S	2.2		-38.1	0.1	75	0			
	Mn.	- 43	- 4	SE	2.9	79.0			75	0			
Febr. 2.	2	83 43	103 3	E <sup>b</sup> S	2.7				75	0			
	4	- 43	- 2	ESE	2.6	80.0			75	0			
	6	- 43	- 1	ESE	2.2				75	0			
	8	- 43	- 0	E <sup>b</sup> N	2.4	80.7	-40.2	0.1	75	0			
	10	- 43	102 59	E <sup>b</sup> N	1.7		-38.3	0.1	74	10	Cist.		
	Noon	- 43	- 59	E <sup>b</sup> N	1.7	80.9	-38.2	0.1	75	10	Cist.		
	2	- 43	- 58	N <sup>b</sup> E	2.0		-35.7	0.1	75	10°	Cist.		
	4	- 43	- 57	N <sup>b</sup> E	2.7	81.7	-35.8	0.1	75	10			m <sup>o</sup>
	6	- 43	- 57	N <sup>b</sup> E	2.5		-35.2	0.2	75	10			m <sup>o</sup>
	8	- 43	- 57	N <sup>b</sup> E	1.8	82.2	-35.8	0.2	76	0			2
	10	- 43	- 57	WNW	2.4		-37.9	0.1	75	0			
	Mn.	- 42	- 57	NW <sup>b</sup> W	3.6	83.0			75	0			
Febr. 3.	2	83 42	102 58	NNW	3.0				74	0			
	4	- 42	- 58	NW <sup>b</sup> W	2.2	82.8			73	5	Ci.	NW	
	6	- 42	- 58	NW <sup>b</sup> W	3.3				75	10	Cist.		
	8	- 41	- 59	W <sup>b</sup> N	4.0	82.7	-32.1	0.3	76	10	Cist.		
	10	- 41	- 59	W <sup>b</sup> N	5.6		-30.7	0.3	77	10°	Str.		
	Noon	- 41	- 59	W <sup>b</sup> N	3.9	82.3	-29.8	0.3	78	10	Cist.		
	2	- 40	- 59	W <sup>b</sup> N	4.2		-31.1	0.3	78	3	Ci.		
	4	- 40	103 0	W	4.8	82.4	-31.1	0.3	78	10°	Cist.		
	6	- 40	- 0	W <sup>b</sup> N	5.1		-32.2	0.3	76	10			m
	8	- 40	- 0	W <sup>b</sup> S	4.2	81.7	-33.2	0.2	77	9	Ci.		
	10	- 39	- 1	W <sup>b</sup> S	6.6		-33.4	0.2	77	0			
	Mn.	- 39	- 1	WSW	6.0	79.2			76	3	Ci.		
Febr. 4.	2	83 39	103 1	SW <sup>b</sup> W	7.6				76	10°	Cist.		
	4	- 38	- 1	SW <sup>b</sup> W	8.6	75.1			77	10°	Cist.		
	6	- 38	- 2	W <sup>b</sup> S	8.2				80	10°	Cist.		
	8	- 38	- 2	W <sup>b</sup> S	9.8	71.3	-23.8	0.5	81	10	Str.		* <sup>2</sup>
	10	- 38	- 2	W <sup>b</sup> S	7.2		-22.0	0.7	83	10	Str.		* <sup>2</sup>
	Noon	- 37	- 3	W	6.6	70.1	-21.4	0.7	82	10	Str.		* <sup>2</sup>
	2	- 37	- 3	NW <sup>b</sup> W	5.2		-20.3	0.8	84	10	Str.		* <sup>2</sup>
	4	- 37	- 3	NW <sup>b</sup> N	6.8	70.9	-25.0	0.5	81	0			*
	6	- 36	- 3	NW <sup>b</sup> N	7.8		-30.1	0.3	77	0			
	8	- 36	- 4	NW <sup>b</sup> N	6.3	72.9	-32.2	0.3	76	8	Ci.	N	
	10	- 36	- 4	N <sup>b</sup> W	6.4		-31.2	0.3	76	10	Cist.		
	Mn.	- 36	- 4	N <sup>b</sup> W	8.0	74.0			76	10°	Ci.		

<sup>1</sup> Unusually clear. <sup>2</sup> Unusually clear.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Febr. 5.	2	83° 35'	103° 4'	N <sup>b</sup> W	5.9				76	0			1
	4	- 35	- 5	N <sup>b</sup> W	4.7	775.9			75	0			
	6	- 35	- 5	N <sup>b</sup> W	7.3				75	0			
	8	- 34	- 5	N	6.1	77.6	-33.1	0.2	75	0			2
	10	- 34	- 6	N <sup>b</sup> E	6.4		-32.6	0.2	76	0			
	Noon	- 34	- 6	N <sup>b</sup> E	6.1	80.1	-33.1	0.2	75	0			
	2	- 33	- 6	N <sup>b</sup> E	5.9		-32.6	0.2	75	0			3
	4	- 33	- 6	N <sup>b</sup> E	4.4	82.7	-32.2	0.3	75	0			
	6	- 33	- 6	N <sup>b</sup> E	5.2		-32.4	0.3	75	0			
	8	- 33	- 5	N <sup>b</sup> E	4.6	84.9	-33.2	0.2	75	0			4
	10	- 33	- 4	NW	3.2		-35.1	0.2	76	0			
	Mn.	- 33	- 3	W <sup>b</sup> N	2.1	84.9			76	0			
Febr. 6.	2	83 33	103 3	W	2.5				77	9			5
	4	- 33	- 2	WSW	4.9	81.5			77	10°	Cist.		
	6	- 33	- 1	W <sup>b</sup> N	4.0				77	10°	Ci.		
	8	- 32	- 0	NW	5.1	79.3	-30.1	0.3	77	10°	Cist.		6
	10	- 32	102 59	N <sup>b</sup> W	4.7		-29.5	0.3	78	10	Cist.		
	Noon	- 32	- 58	NE <sup>b</sup> E	4.6	79.2	-31.8	0.3	77	0			
	2	- 32	- 57	NE	4.3		-35.1	0.2	76	0			7
	4	- 32	- 57	NE <sup>b</sup> N	4.4	79.9	-36.1	0.1	74	0			
	6	- 32	- 55	NE <sup>b</sup> E	5.2		-36.3	0.1	75	0			
	8	- 32	- 53	NE	6.6	80.2	-36.2	0.1	75	0			8
	10.15	- 32	- 51	NE <sup>b</sup> E	5.7		-36.6	0.1	74	0			
	Mn.	- 32	- 49	NE <sup>b</sup> E	5.2	81.3			74	0			
Febr. 7.	2	83 32	102 48	NE <sup>b</sup> E	4.4				75	0			9
	4	- 32	- 46	E <sup>b</sup> N	4.0	82.1			75	0			
	6	- 32	- 44	E <sup>b</sup> N	3.0				75	0			
	8	- 32	- 42	E	2.4	82.0	-40.5	0.1	73	0			10
	10	- 32	- 40	E	1.6		-41.3	0.1	73	0			
	Noon	- 32	- 38	E <sup>b</sup> S	1.5	81.0	-43.2	0.1	73	0			
	2	- 32	- 36	S <sup>b</sup> E	2.2		-42.9	0.1	73	2	Ci.	N	11
	4.15	- 32	- 34	SSW	3.0	78.2	-41.2	0.1	73	8	Ci. Cist.	NNW	
	6	- 32	- 33	SW	3.9		-39.1	0.1	74	10	Cien.		
	8	- 32	- 34	SW <sup>b</sup> S	4.0	74.3	-37.4	0.1	75	10	Cist.		12
	10	- 32	- 35	SSW	4.4		-36.1	0.1	75	10	Cist.		
	Mn.	- 32	- 36	SW <sup>b</sup> S	6.0	70.8			75	10	Cist.		
Febr. 8.	2	83 32	102 37	SW <sup>b</sup> S	5.6				75	10°	Cist.		13
	4	- 32	- 37	SW <sup>b</sup> S	5.3	67.9			75	10	Cist.		
	6	- 32	- 38	SW <sup>b</sup> S	6.8				75	10°	Cist.		
	8	- 32	- 39	SW	4.9	66.6	-34.1	0.2	75	10	Cist.		14
	10	- 32	- 40	SW <sup>b</sup> W	4.1		-34.1	0.2	75	10	Cist.		
	Noon	- 32	- 41	SW <sup>b</sup> S	3.0	66.1	-33.8	0.2	75	10	Cist.		
	2	- 32	- 42	SW <sup>b</sup> W	4.5		-32.6	0.2	75	10	Cist.		15
	4	- 33	- 43	SSW	3.8	66.4	-34.1	0.2	75	10	Cist.		
	6	- 33	- 43	SSW	3.7		-34.1	0.2	75	10	Cist.		
	8	- 33	- 44	S <sup>b</sup> W	3.4	66.7	-33.7	0.2	75	10	Cist.		16
	10	- 33	- 45	S <sup>b</sup> W	2.8		-33.7	0.2	75	10	Cist.		
	Mn.	- 33	- 46	S	3.3	67.0			74	10	Cist.		
Febr. 9.	2	83 33	102 47	SE <sup>b</sup> S	4.0				73	0			17
	4	- 33	- 48	SSE	3.6	68.3			73	0			
	6	- 33	- 49	SSE	3.2				74	0			
	8	- 33	- 49	SE	2.6	69.9	-40.2	0.1	73	5°			18
	10	- 33	- 50	E <sup>b</sup> S	3.1		-41.5	0.1	72	0			
	Noon	- 33	- 51	E <sup>b</sup> S	2.1	72.0	-42.2	0.1	72	0			

<sup>1</sup> Hygrometer buried in snow; cleaned, showed 79.5. <sup>2</sup> Unusually clear all day. <sup>3</sup> A few ci. round the horiz.

<sup>4</sup> A few ci. round the horiz. <sup>5</sup> A few ci. here and there. <sup>6</sup> Strong radiance over the horiz. under the moon.

<sup>7</sup> ☐. <sup>8</sup> ☐ green-coloured.





1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Febr. 14.	2	83° 26'	103° 12'	EbS	1.4				72	0			
	4	- 26	- 11	EbS	2.2	770.0			72	0			
	6	- 26	- 10	EbS	2.0				72	0			
	8	- 26	- 10	EbS	2.6	72.2	-42.6	0.1	72	0			
	10	- 26	- 9	EbS	2.8		-42.2	0.1	72	0			
	Noon	- 26	- 8	EbS	3.1	73.6	-41.6	0.1	72	0			
	2	- 26	- 7	EbS	2.7		-42.2	0.1	72	0			
	4	- 26	- 6	EbS	2.0	75.3	-42.2	0.1	72	0			
	6	- 26	- 6	EbS	1.8		-43.2	0.1	72	0			
	8	- 26	- 6	EbS	1.4	76.5	-43.2	0.1	72	0			
	10	- 26	- 6	ESE	2.0		-43.1	0.1	72	0			
	Mn.	- 26	- 6	SE b E	1.9	77.5			72	0			
Febr. 15.	2	83 27	103 5	EbS	1.5				71	0			
	4	- 27	- 5	EbS	2.0	78.4			71	0			
	6	- 27	- 5	EbS	1.4				72	0			
	8	- 27	- 5	NE	1.6	79.2	-44.9	0.1	72	0			
	10	- 27	- 5		0		-45.0	0.1	72	0			
	Noon	- 27	- 5	NE b E	1.3	79.6	-44.1	0.1	72	0			
	2	- 27	- 4	NE b E	1.3		-43.2	0.1	72	0			
	4	- 28	- 4		0	80.4	-42.2	0.1	72	0			
	6	- 28	- 4		0		-42.9	0.1	72	0			
	8	- 28	- 4		0	80.8	-40.9	0.1	72	0			
	10	- 28	- 4	SE b S	1.3		-41.8	0.1	73	0			
	Mn.	- 28	- 3	SE b S	1.6	81.2			72	0			
Febr. 16.	2	83 28	103 3	SE b S	2.0				71	0			
	4	- 28	- 3	S b E	2.4	82.2			72	0			
	6	- 28	- 3	SE b S	2.2				72	0			
	8	- 29	- 3	S b E	2.4	83.1	-43.6	0.1	72	0			
	10	- 29	- 2	S b E	2.4		-43.5	0.1	72	0			
	Noon	- 29	- 2	S	2.5	84.3	-42.2	0.1	72	0			
	2	- 29	- 2	SSE	2.1		-43.2	0.1	72	0			
	4	- 29	- 2	S b E	2.5	84.7	-43.3	0.1	72	0			
	6	- 29	- 2	S b E	2.3		-43.0	0.1	72	0			
	8	- 29	- 1	EbS	1.5	84.3	-43.2	0.1	72	0			
	10	- 29	- 1	EbS	1.9		-42.9	0.1	72	0			
	Mn.	- 30	- 1	EbS	1.7	83.2			72	0			
Febr. 17.	2	83 30	103 1	EbS	2.7				72	0			
	4	- 30	- 1	EbS	3.4	80.9			72	0			
	6	- 30	- 0	EbS	3.5				73	0			
	8	- 30	- 0	EbN	3.8	78.2	-39.1	0.1	73	0			
	10	- 30	- 0	EbN	4.0		-38.4	0.1	73	0			
	Noon	- 30	- 0	EbN	4.2	75.5	-38.1	0.1	73	0			
	2	- 31	- 0	EbN	4.2		-37.1	0.1	74	0			
	4	- 31	102 59	EbN	3.6	72.6	-37.1	0.1	74	0			
	6.15	- 31	- 59	EbN	4.2		-38.2	0.1	73	0			
	8	- 31	- 59	EbN	3.8	71.7	-35.9	0.1	75	0			
	10	- 31	- 59	EbN	3.6		-36.9	0.1	74	0			
	Mn.	- 31	- 59	EbS	3.5	72.1			74	0			
Febr. 18.	2	83 31	102 58	SE b S	1.8				74	0			
	4	- 31	- 58	SE	2.0	73.9			73	0			
	6	- 32	- 58	SE b S	3.6				74	0			
	8.15	- 32	- 58	SE b S	3.4	76.1	-40.7	0.1	73	0			
	10	- 32	- 58	SE b S	4.0		-41.5	0.1	73	0			
	Noon	- 32	- 57	SE b S	2.6	78.0	-43.2	0.1	72	0			
	2	- 32	- 57	SE	3.1		-43.2	0.1	72	0			
	4	- 32	- 57	SE b E	3.3	79.2	-43.6	0.1	72	0			
	6	- 32	- 57	SE b S	2.1		-44.2	0.1	72	0			
	8	- 33	- 57	SE	2.2	80.0	-45.0	0.1	72	0			
	10	- 33	- 57	SE	2.5		-45.0	0.1	71	0			
	Mn.	- 33	- 57	SE	1.6	81.0			71	0			

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Febr. 19.	2	83° 33'	102° 57'	SE b S	0.0		-43.2	0.1	72	0			
	4	- 33	- 57	SE b S	0.0	78.1	-43.6	0.1	72	0			
	6	- 34	- 57	ESE	3.0		-44.2	0.1	71	0			
	8.15	- 34	- 57	E	3.0	80.3	-45.2	0.1	71	0			
	10	- 34	- 57	E	3.5		-44.0	0.1	71	0			
	Noon	- 34	- 58	E b S	3.8	78.9			72	0			
	2	- 35	- 58	E	4.3		-41.1	0.1	73	10°	Ci.	SE	
	4	- 35	- 58	E	5.7	75.7	-37.4	0.1	73	10	Cist.		
	6	- 35	- 58	E	6.8		-36.4	0.1	73	10	Cist.		
	8	- 35	- 58	ESE	6.3	71.0	-35.8	0.1	75	10			m
	10	- 35	- 58	E b S	4.5		-36.3	0.1	74	0			
	Mn.	- 36	- 58	ESE	4.2	67.9			74	0			
Febr. 20.	2	83 36	102 58	SE b E	2.5				73	0			
	4	- 36	- 58	SE b S	2.0	67.2			74	1	Cist.		
	6	- 36	- 58	SE b S	1.8				73	0			
	8	- 36	- 58	SE	3.4	67.7	-38.9	0.1	74	0			
	10	- 37	- 58	S b E	2.7		-41.7	0.1	73	0			
	Noon	- 37	- 58	SE b S	2.6	68.9	-40.2	0.1	73	0			
	2	- 37	- 58	S b E	3.5		-42.7	0.1	73	0			
	4	- 37	- 58	S	2.4	70.7	-42.8	0.1	72	0			
	6	- 38	- 58	SSW	3.8		-42.8	0.1	72	0			
	8	- 38	- 58	SSW	2.6	72.4	-44.2	0.1	72	0			
	10	- 38	- 58	S	2.7		-44.3	0.1	72	0			
	Mn.	- 38	- 59	S b W	3.7	73.8			71	0			
Febr. 21.	2	83 38	102 59	S b E	2.8				69	0			
	4	- 39	- 59	S b W	3.0	75.5			71	0			
	6.30	- 39	- 59	S	2.5				71	0			
	8.15	- 39	- 59	S	3.1	76.8	-45.7	0.1	71	0			
	10	- 39	- 59	S	3.0		-45.2	0.1	71	0			
	Noon	- 39	- 59	S b W	2.9	77.9	-44.7	0.1	71	0			
	2	- 40	- 59	S	2.6		-43.8	0.1	72	10°	Ci.		2
	4	- 40	- 59	SE b S	3.8	78.0	-43.4	0.1	71	2	Ci.		
	6	- 40	- 58	SE	3.6		-42.2	0.1	72	3	Ci.		
	8	- 40	- 57	SE b E	3.3	77.3	-43.5	0.1	72	0			
	11	- 41	- 55	SE b E	5.0		-40.3	0.1	73	0			
	Mn.	- 41	- 54	SE b E	5.5	75.5			73	0			
Febr. 22.	2	83 41	102 52	SE b E	7.3				73	0			
	4	- 41	- 51	ESE	7.2	73.4			73	10	Str.		
	6	- 41	- 50	ESE	7.2				71	10	Str.		
	8	- 41	- 48	ESE	6.2	71.2	-34.8	0.2	75	10	Str.		
	10	- 42	- 47	SE b S	5.4		-35.1	0.2	74	10			
	Noon	- 42	- 45	SE b E	3.5	71.6	-37.8	0.1	74	0			m
	2	- 42	- 44	ESE	3.4		-39.2	0.1	74	0			3
	4	- 42	- 42	E b S	3.6	71.3	-40.2	0.1	73	0			
	6	- 42	- 41	ESE	3.0		-40.3	0.1	72	1	Ci.		
	8	- 43	- 39	ESE	2.7	70.4	-40.5	0.1	72	0			
	10	- 43	- 38	SE b E	3.4		-40.5	0.1	73	0			
	Mn.	- 43	- 37	ESE	4.0	69.6			73	0			
Febr. 23.	2	83 43	102 35	ESE	4.0				74				
	4	- 43	- 33	E b S	4.3	67.4			74	0			
	6	- 44	- 32	E b S	4.4				74	0			
	8	- 44	- 31	E b N	5.5	65.5	-35.7	0.1	74	10°	Ci.		
	10	- 44	- 29	ESE	5.4		-35.3	0.2	74	10	Ci.		
	Noon	- 44	- 28	ESE	7.6	63.9	-34.7	0.2	74	10°	Cist.		

<sup>1</sup> Low ci. <sup>2</sup> Extremely light cirrus. <sup>3</sup> Light ci. all round the horiz. about 5° high.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Febr. 23.	2	83° 44'	102° 27'	E <sup>b</sup> S	7.5		-34.7	0.2	75	0			1
	4	- 45	- 25	ESE	7.7	762.8	-34.1	0.2	75	0			
	6	- 45	- 24	ESE	6.0		-34.6	0.2	75	0			
	8	- 45	- 22	ESE	6.0	62.2	-34.9	0.2	75	0			
	10	- 45	- 21	ESE	6.4		-34.7	0.2	76	0			
	Mn.	- 45	- 19	ESE	5.3	61.3			75	0			
Febr. 24.	2	83 45	102 18	ESE	4.7				75	0			2
	4	- 46	- 17	ESE	4.2	60.6			75	0			
	6	- 46	- 15	ESE	3.3				74	0			
	8	- 46	- 14	ESE	3.0	60.3	-36.7	0.1	75	0			
	10	- 46	- 12	ESE	3.3		-37.4	0.1	74	10°	Ci.		
	Noon	- 46	- 11	E <sup>b</sup> S	2.5	60.0	-38.7	0.1	74	0			
	2	- 47	- 9	S <sup>b</sup> E	2.3		-39.8	0.1	73	0			
	4	- 47	- 8	S <sup>b</sup> W	1.8	60.0	-39.5	0.1	73	3	Ci.	SW	
	6	- 47	- 7	S	2.5		-36.1	0.1	74	10°	Ci. Cist.		
	8	- 47	- 7	SSW	3.0	61.1	-33.4	0.2	76	0			
	10	- 47	- 7	SW <sup>b</sup> S	3.5		-35.3	0.2	75	0			
	Mn.	- 47	- 6	SW	3.2	62.3			74	0			
Febr. 25.	2	83 47	102 6	S <sup>b</sup> W	2.0				73	0			—
	4	- 47	- 6	S <sup>b</sup> W	1.2	63.5			74	0			
	6	- 47	- 6	S	2.0				73	0			
	8	- 47	- 6	SE <sup>b</sup> S	3.0	64.2	-42.4	0.1	72	0			
	10	- 47	- 6	ESE	2.0		-41.3	0.1	72	10°	Ci.		
	Noon	- 47	- 5	ESE	3.1	64.4	-39.5	0.1	73	0			
	2	- 47	- 5	ESE	2.7		-41.6	0.1	73	0			
	4	- 47	- 5	ESE	2.8	64.7	-42.1	0.1	72	0			
	6	- 48	- 5	ESE	3.1		-42.2	0.1	72	0			
	8	- 48	- 4	ESE	3.6	64.6	-41.2	0.1	73	0			
	10.40	- 48	- 3	SE <sup>b</sup> E	3.3		-41.2	0.1	73	0			
	Mn.	- 48	- 3	ESE	4.0	64.7			73	0			
Febr. 26.	2	83 48	102 2	ESE	3.6				72	0			* <sup>2</sup> * <sup>3</sup> 3
	4	- 49	- 2	SE <sup>b</sup> E	5.0	64.7			75	0			
	6	- 49	- 1	ESE	4.6				73	0			
	8	- 49	- 0	ESE	6.3	63.5	-33.1	0.2	76	10°	Str.		
	10	- 49	- 0	ESE	6.5		-32.2	0.3	76	10°	Str.		
	Noon	- 50	101 59	ESE	6.6	60.1	-30.8	0.3	76	10°	Str.		
	2	- 50	- 59	ESE	10.0		-30.5	0.3	76	10°	Str.		
	4	- 50	- 58	ESE	8.1	56.2	-29.5	0.3	77	10°	Str.		
	8	- 50	- 57	SE <sup>b</sup> E	5.1	53.9	-32.6	0.2	76	0			
	10	- 51	- 57	SE <sup>b</sup> S	4.2		-34.1	0.2	76	0			
	Mn.	- 51	- 56	SE <sup>b</sup> S	3.5	53.1			76	10			
												m	
Febr. 27.	2	83 51	101 55	S <sup>b</sup> E	3.7				75	0			4 5 m°
	4	- 51	- 55	S <sup>b</sup> E	3.9	53.9			75	0			
	6	- 51	- 54	SE <sup>b</sup> S	3.5				75	0			
	8	- 52	- 54	S <sup>b</sup> E	4.8	54.5	-39.0	0.1	74	0			
	10	- 52	- 53	S <sup>b</sup> E	5.6		-39.0	0.1	75	10	Cist.		
	Noon	- 52	- 52	S <sup>b</sup> E	7.4	54.8	-37.1	0.1	73	10°	Str.		
	2	- 52	- 52	S <sup>b</sup> E	6.8		-36.9	0.1	74	10°	Cist.		
	4	- 53	- 51	S <sup>b</sup> E	7.4	55.0	-36.4	0.1	74	7	Ci. Cist.		
	6	- 53	- 50	S <sup>b</sup> E	8.1		-35.8	0.1	74	5	Ci. Cist.		
	8	- 53	- 50	S	9.5	55.0	-35.4	0.2	75	0			
	10	- 54	- 49	S <sup>b</sup> W	7.6		-35.4	0.2	75	10			
	Mn.	- 54	- 49	S <sup>b</sup> W	7.0	54.8			75	0			

<sup>1</sup> Unusually clear. <sup>2</sup> Extremely light cirrus. <sup>3</sup> Driving snow from the ground. <sup>4</sup> Driving snow from the ground. <sup>5</sup> Thick all day, all round the horiz. from SE to SW and up to from 5° to 10° above it.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Febr. 28.	2	83°54'	101°48'	S b W	8.0				75	10°			m° 1
	4	- 55	- 43	S b W	8.6	755.8			75	0			
	6	- 55	- 47	SSW	8.4				75	10°	Cist.		
	8.15	- 55	- 47	S b W	6.5	56.9	-34.7	0.2	75	0			
	10	- 55	- 46	S b W	5.3		-34.6	0.2	75	10	Ci.		
	Noon	- 56	- 46	S	5.4	57.2	-33.6	0.2	75	5	Ci.		
	2	- 56	- 45	S b E	5.3		-30.5	0.3	76	10	Cist.		
	4	- 56	- 45	S b E	5.1	56.5	-28.1	0.4	77	10°	Cist.		* <sup>2</sup>
	6	- 57	- 44	S b E	5.8		-26.0	0.5	79	10°	Str.		* <sup>2</sup>
	8	- 57	- 44	S b E	6.8	55.9	-25.9	0.5	79	10°	Cist.		
	10	- 57	- 43	SSE	5.4		-25.1	0.5	79	10°	Cist.		
	Mn.	- 57	- 43	S b W	2.2	55.8			80	10	Str.		
March 1.	2	83 58	101 42		0				79	10	Cist.		
	4	- 58	- 42	S b W	1.5	57.1			79	10	Str.		*°
	6	- 58	- 41	S b W	2.8				79	10	Cist.		
	8	- 59	- 41	E b S	4.6	54.5	-27.1	0.4	78	10	Str.		*°
	10	- 59	- 40	SE b E	4.0		-27.6	0.4	78	10	Str.		*°
	Noon	- 59	- 40	ESE	3.6	53.5	-26.3	0.5	78	10	Str.		*°
	2	- 59	- 39	ESE	4.6		-25.0	0.5	79	10	Str.		
	4	84 0	- 39	ESE	3.4	52.9	-25.1	0.5	79	10°	Str.		2
	6	- 0	- 38	ESE	3.0		-25.3	0.5	80	10	Ci.		m
	8	- 0	- 38	SE b E	2.2	52.4	-26.7	0.4	79	10			
	10	- 1	- 37	E b S	2.0		-30.7	0.3	79	1	Ci.		
	Mn.	- 1	- 37	SE b S	1.6	53.4			79	0			
March 2.	2	84 1	101 36	SE b S	1.8				77	0			
	4	- 2	- 36		0	55.8			76	0			
	6	- 2	- 35	NW b W	2.0				76	0			
	8	- 2	- 35	N b E	0.0	58.4	-39.0	0.1	75	0			
	10	- 2	- 34	NW b W	0.0		-39.5	0.1	74	0			
	Noon	- 3	- 34	NE b E	0.0	60.7	-40.7	0.1	74	0			
	2	- 3	- 33	E b S	0.0		-40.7	0.1	74	0			
	4	- 3	- 33	E b S	0.0	63.4	-40.2	0.1	74	0			
	6	- 4	- 32	E b S	1.8		-39.7	0.1	74	0			
	8	- 4	- 32	SE b S	2.0	65.1	-40.2	0.1	74	0			3
	10	- 4	- 31	SE b S	1.8		-39.5	0.1	74	0			
	Mn.	- 4	- 31	SE b S	0.0	66.4			74	0			
March 3.	2	84 4	101 30	SE b S	3.0				74	0			4
	4	- 4	- 29	SE b S	1.5	68.5			75	0			
	6	- 4	- 29	SE b S	1.5				75	0			
	8	- 4	- 28	SE	1.8	70.3	-38.7	0.1	75	0			
	10	- 4	- 27	SE	2.7		-37.9	0.1	74	0			
	Noon	- 4	- 27	SE b S	1.8	71.6	-38.0	0.1	74	0			
	2	- 4	- 26	SW b W			-38.5	0.1	74				
	4	- 4	- 26	SE b S	1.6	73.4	-39.1	0.1	74				
	6	- 4	- 25	S b W			-38.6	0.1	74				
	8	- 4	- 24	S b W	2.7	73.8	-38.2	0.1	74				
	10.30	- 4	- 23	S b W	1.7		-38.7	0.1	74				
	Mn.	- 4	- 23	S b W	3.4	74.7			74	0			
March 4.	2	84 4	101 22	S b E	2.2				74	0			
	4	- 4	- 22	S b E	3.7	74.6			75	0			
	6	- 4	- 21	S b E	2.8				74	0			
	8	- 4	- 21	S b E	2.9	74.7	-37.5	0.1	75	0			
	10	- 4	- 20	S	2.7	75.0	-37.8	0.1	74	0			
	Noon	- 4	- 19	S b W	2.8	75.1	-38.2	0.1	74	0			

<sup>1</sup> Thick all round the horiz. as at 8 p. m. yesterday. <sup>2</sup> 6, 8 p. m. Thick all round the horiz. <sup>3</sup> Unusually clear. <sup>4</sup> Some str. on the southern horiz.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 4.	2	84° 5'	101° 19'	S <sup>b</sup> W	2.5		-38.5	0.1	74	0			
	4	- 5	- 18	S <sup>b</sup> W	2.8	77.4	-38.2	0.1	74	0			
	6	- 5	- 17	SSW	3.0		-37.8	0.1	74	0			1
	8	- 5	- 17	S <sup>b</sup> W	2.8	75.3	-38.2	0.1	74	0			2
	10	- 4	- 19	SSW	2.4		-38.6	0.1	74	0			
March 5.	2	84 4	101 20	SSW	2.3	76.0			75	0			
	4	- 4	- 21	SW <sup>b</sup> S	2.4	76.2			75				3
	6	- 4	- 22	SSW	2.8				75				m <sup>o</sup> 4
	8	- 4	- 23	SW	3.9	76.5	-35.4	0.2	75	10°	Cist.		
	10	- 4	- 24	SW	3.8		-35.5	0.2	75	3	Ci.		
	Noon	- 4	- 26	SW	3.0	77.2	-35.3	0.2	75	2	Ci.		
	2	- 4	- 27	SW <sup>b</sup> W	3.0		-34.6	0.2	76	5°	Ci.	W	
	4	- 4	- 28	SW <sup>b</sup> S	3.8	77.1	-34.1	0.2	76	2	Ci.	W	
	6	- 4	- 29	SW	4.1		-33.6	0.2	76	5	Ci.		
	8	- 4	- 30	SW <sup>b</sup> W	5.5	78.1	-33.3	0.2	76	8	Ci.		
	10	- 4	- 31	WSW	3.8		-33.4	0.2	76	0			5
	Mn.	- 4	- 32	WSW	4.9	78.2			77	0			
March 6.	2	84 3	101 34	SW <sup>b</sup> W	4.2				77	10°	Cist.		6
	4	- 3	- 35	WSW	4.8	79.0			77	0			7
	6	- 3	- 36	WSW	4.6				77	0			
	8	- 3	- 37	WSW	5.0	79.8	-31.8	0.3	77	10°	Cist.		8
	10	- 3	- 38	WSW	5.1		-32.6	0.2	77	0			9
	Noon	- 3	- 39	WSW	6.4	80.2	-32.8	0.2	77	10	Ci.		10
	2	- 3	- 41	WSW	5.1		-33.1	0.2	77	10°	Cist.		
	4	- 3	- 42	W <sup>b</sup> S	7.0	80.5	-32.4	0.3	77	10°	Cist.		
	6	- 3	- 43	WSW	5.5		-33.5	0.2	77	10	Ci.		
	8	- 3	- 45	W <sup>b</sup> S	6.3	80.3	-33.1	0.2	77	10°	Cist.		
	10	- 2	- 46	W <sup>b</sup> S	4.3		-33.8	0.2	76	10	Ci. Cust.		11
	Mn.	- 2	- 47	SW <sup>b</sup> W	6.4	79.6			77	10°	Cist.		
March 7.	2	84 2	101 47	SW <sup>b</sup> W	5.8				76	0			
	4	- 2	- 48	NW <sup>b</sup> W	5.0	79.7			76	10°	Cist.		
	6	- 2	- 49	W	4.7				76	0			
	8	- 2	- 49	W <sup>b</sup> S	4.9	79.5	-33.1	0.2	77	10°	Cist.		
	10	- 2	- 50	W	5.2		-32.0	0.3	77	10°	Cist.		
	Noon	- 2	- 51	W	5.9	79.7	-31.1	0.3	77	10°	Cist.		
	2	- 2	- 51	W <sup>b</sup> N	5.2		-31.2	0.3	77	10°	Cist.		
	4	- 1	- 52	W <sup>b</sup> N	5.3	79.8	-30.9	0.3	77	10°	Cist.		
	6	- 1	- 53	W <sup>b</sup> N	4.7		-30.8	0.3	77	10°	Cist.		
	8	- 1	- 54	W <sup>b</sup> N	4.1	79.8	-30.1	0.3	78	10°	Cist.		
	10	- 1	- 54	W <sup>b</sup> S	4.3		-30.6	0.3	78	10°	Cist.		12
	Mn.	- 1	- 55	WSW	3.8	79.8			78				13
March 8.	2	84 1	101 56	W <sup>b</sup> S	4.7				78	10°	Cist.		14
	4	- 1	- 56	W <sup>b</sup> N	3.5	80.3			78	8	Cist.		
	6	- 1	- 57	W <sup>b</sup> S	3.4				78	0			
	8	- 0	- 58	W <sup>b</sup> S	2.8	80.8	-32.0		78	0			15
	10	- 0	- 58	W <sup>b</sup> S	2.8		-32.4	0.3	75	0			
	Noon	- 0	- 59	SW <sup>b</sup> W	3.4	81.6	-32.4	0.2	75	0			
	2	- 0	102 0	W <sup>b</sup> S	2.8		-32.2	0.2	76	0			16
	4	- 0	- 1	W <sup>b</sup> S	2.6	82.1	-32.5	0.3	75	0			

<sup>1</sup> W rainbow-coloured. <sup>2</sup> W coloured. Hygr. 77.2. Freed the pulley from snow; the index stood at 77.7.

<sup>3</sup> Str. southern horiz. <sup>4</sup> Str. southern horiz. <sup>5</sup> 2 coloured W. <sup>6</sup> 10 p. m. and midn. A few light, detached ci.

<sup>7</sup> A dark bank towards NE. <sup>8</sup> A dark bank of clouds NW to NE. Strong radiance on the horiz. under the moon. <sup>9</sup> A narrow coloured rim round the moon. <sup>10</sup> Cirrus-belts converging towards SE. <sup>11</sup> Extremely light ci.

<sup>12</sup> Faint W. <sup>13</sup> W with faint mock-moons. <sup>14</sup> A few str. over the northern sky. <sup>15</sup> W with faint mock-moons.

<sup>16</sup> Hygr. 80.7. Cleaned from —. Showed then 78.2. <sup>17</sup> 2, 4, 6 p. m. Unusually looming all round the horiz.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 8.	6	84° 0'	102° 1'	W <sup>b</sup> S	2.7		-32.4	0.2	75	0			
	8	- 0	- 2	W <sup>b</sup> S	2.7	782.6	-32.2	0.2	75	0			
	10	- 0	- 3	W <sup>b</sup> N	3.2				76	10°	Cist.		1
	Mn.	- 0	- 3	W <sup>b</sup> S		83.2			75	0			
March 9.	2	83 59	102 4	W <sup>b</sup> S	2.2				75	0			
	4	- 59	- 5	W <sup>b</sup> N	2.6	83.7			75	0			
	6	- 59	- 5	W <sup>b</sup> N	3.2				75	0			
	8	- 59	- 6	W <sup>b</sup> N	3.2	84.0	-33.0	0.2	75	0			
	10	- 59	- 7	W <sup>b</sup> N	2.7		-32.6	0.2	75	0			
	Noon	- 59	- 7	WNW	3.0	84.6	-32.3	0.2	75	0			
	2	- 59	- 8	W <sup>b</sup> N	2.4		-32.2	0.2	75	0			2
	4	- 59	- 9	W <sup>b</sup> N	2.5	85.4	-32.4	0.2	75	0			
	6	- 58	- 10	W <sup>b</sup> N	1.9		-32.2	0.2	75	0			
	8	- 58	- 11	W <sup>b</sup> N	1.3	85.4	-32.8	0.2	75	0			
	10	- 58	- 11	W	2.2		-32.5	0.3	76	0			
	Mn.	- 58	- 11	W	1.6	84.9			76	0			
March 10.	2	83 58	102 11	W <sup>b</sup> S	1.4				76	0			
	4	- 59	- 11	S <sup>b</sup> W	2.0	84.9			76	0			
	6	- 59	- 11	SW <sup>b</sup> W	1.8				75	0			3
	8	- 59	- 11	S <sup>b</sup> W	1.8	84.2	-33.6	0.2	76	0			
	10	- 59	- 11	E <sup>b</sup> S	0.0		-34.9	0.2	76	0			
	Noon	- 59	- 12		0	83.8	-34.7	0.2	74	0			
	2	- 59	- 12	S <sup>b</sup> E	2.6		-33.8	0.2	76	1	Ci.	SE	
	4	- 59	- 12	SE <sup>b</sup> S	2.0	84.1	-34.5	0.2	75	10°	Cist.		
	6	- 59	- 12	S	2.9		-34.8	0.2	75	0			
	8	- 59	- 12	S <sup>b</sup> W	2.8	80.7	-35.7	0.1	75	0			
	10	- 59	- 12	SSW	3.0		-35.8	0.1	75	2	Ci.		4
	Mn.	- 59	- 12	SSW	2.6	81.7			75	2	Ci.		5
March 11.	2	83 59	102 12	SW <sup>b</sup> S	2.6				75	1	Cist.		
	4	- 59	- 13	SW <sup>b</sup> S	1.4	81.2			75	1	Cist.	NW	
	6	- 59	- 13	SW <sup>b</sup> S	3.0				75	1	Cist.		
	8	- 59	- 13	S <sup>b</sup> W	2.8	79.7	-35.2	0.2	75	10	Cist.		
	10	- 59	- 13	S	2.6		-34.1	0.2	75	0			
	Noon	- 59	- 13	S	2.6	80.0	-34.6	0.2	75	0			
	2	- 59	- 13	SSE	2.4		-35.8	0.1	75	0			
	4	- 59	- 13	SE <sup>b</sup> S	2.8	79.3	-36.1	0.1	75	0			
	6	- 59	- 13	SE <sup>b</sup> S	2.5	78.8	-36.3	0.1	75	0			
	8	- 59	- 13	SE	2.0		-36.6	0.1	75	0			
	10.30	- 59	- 12	SE	3.7		-35.5	0.2	75	10°	Cist.		
	Mn.	- 59	- 11	SE	3.6	75.4			76	0			
March 12.	2	84 0	102 10	SE	4.0				75	0			
	4	- 0	- 9	SE <sup>b</sup> E	4.4	73.6			76				
	6	- 0	- 7	SE	6.1				77	10°	Cist.		6
	8	- 0	- 6	SE <sup>b</sup> E	7.9	69.9	-27.9	0.4	79	10°	Str.		7
	10	- 1	- 5	SE <sup>b</sup> E	8.0		-28.3	0.4	78	10°	Cist.		*
	Noon	- 1	- 4	SE <sup>b</sup> E	8.9	66.9	-26.1	0.5	79	10	Str.		*
	2	- 1	- 3	SE <sup>b</sup> E	9.2		-25.5	0.5	80	10	Str.		*
	4	- 1	- 2	SE <sup>b</sup> E	6.5	64.1	-25.5	0.5	80	10	Str.		
	6	- 1	- 1	SE <sup>b</sup> E	6.1		-25.8	0.5	79	10	Str.		
	8	- 2	- 0	SE <sup>b</sup> E	5.2	61.7	-24.1	0.5	79	10	Str.		*
	10	- 2	101 59	SE	5.2		-22.8	0.6	82	10	Cust.	SE	*
	Mn.	- 2	- 58	SE	6.0	60.1			82	10	Str.		*

<sup>1</sup> Faint  $\sqcup$  with 2 mock-moons. <sup>2</sup> A single bow of ci. in S. <sup>3</sup> A little rim of  $\equiv$  on and round the horiz.  
<sup>4</sup> Thick all round the horiz. <sup>5</sup>  $\sqcup$ , the outer one rainbow-coloured. <sup>6</sup> Thick all round the horiz. <sup>7</sup> Single ci. in S. <sup>8</sup> 6, 8 a. m. Driving snow from the ground.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 13.	2	84°2'	101°56'	SE	5.2				83	10	Cist.		
	4	- 2	- 55	SSE	4.0	759.5			83	9	Cist.		
	6	- 3	- 54	SE <sup>b</sup> S	3.9				78	10	Str.		
	8	- 3	- 53	S	3.2	59.0	-22.3	0.6	83	10	Str.		
	10	- 3	- 52	SSE	3.2		-25.5	0.5	81	10°	Cist.		1
	Noon	- 3	- 51	S <sup>b</sup> W	4.8	59.0	-27.4	0.4	80	10°	Cist.		
	2	- 3	- 50	S	4.8		-28.2	0.4	80	10°	Cist.		2
	4	- 4	- 49	S	4.8	59.1	-28.4	0.4	80	10°	Cist.		
	6	- 4	- 48	S	4.4		-30.1	0.3	79	10°	Cist.		
	8	- 4	- 46	S	3.2	59.2	-31.4	0.3	79	10°	Cist.		
	10	- 4	- 45	S	4.0		-31.4	0.3	79	10°	Cist.		
	Mn.	- 4	- 43	S	3.1	59.9			79	10°	Cist.		
March 14.	2	84 4	101 42	S	3.1				77	10°	Cist.		
	4	- 4	- 40	S	2.6	59.8			77	10°	Cist.		
	6	- 4	- 38	SSE	1.8				77	0			
	8	- 5	- 37	SE <sup>b</sup> S	3.0	59.8	-33.8	0.2	77	10°	Cist.		
	10	- 5	- 35	SE	2.7		-31.6	0.3	78	10	Str.		
	Noon	- 5	- 34	SE <sup>b</sup> E	3.8	59.8	-30.7	0.3	79	10°	Cist.		
	2	- 5	- 32	SE <sup>b</sup> E	3.4		-30.4	0.3	78	10°	Cist.		
	4	- 5	- 31	SE	3.8	59.2	-31.5	0.3	78	10°	Cist.		
	6	- 5	- 29	SE	3.8		-31.1	0.3	78	10°	Cist.		
	8	- 5	- 28	SE	3.4	58.6	-31.1	0.3	79	10°	Cist.		
	10	- 5	- 26	SE	4.4		-32.2	0.3	78	10°	Cist.		
	Mn.	- 5	- 24	SE	4.6	58.1			78	10°	Cist.		
March 15.	2	84 6	101 23	SE	4.3				77	10°	Cist.		
	4	- 6	- 21	SE <sup>b</sup> E	3.6	58.2			77	9	Str.		
	6	- 6	- 20	ESE	3.5				78	10	Str.		
	8	- 6	- 18	E	3.6	58.4	-29.4	0.3	78	10	Str.		
	10	- 6	- 17	E	4.7		-30.1	0.3	78	10°	Cist.		
	Noon	- 6	- 15	E <sup>b</sup> S	5.4	56.8	-26.7	0.4	81	10	Str.		
	2	- 6	- 14	E <sup>b</sup> S	6.3		-24.8	0.5	81	10	Str.		
	4	- 6	- 12	E <sup>b</sup> S	5.7	57.0	-24.4	0.5	82	10	Str.		
	6	- 6	- 10	E <sup>b</sup> S	6.8		-24.0	0.5	83	10°	Cist.		
	8	- 7	- 9	E <sup>b</sup> S	5.8	55.7	-24.3	0.5	82	10°	Cist.		
	10	- 7	- 7	E	7.6		-24.8	0.5	82	10°	Cicu.		
	Mn.	- 7	- 6	E <sup>b</sup> S	6.9	55.1			81	9	Cist.		
March 16.	2	84 7	101 4	E <sup>b</sup> S	6.8				82	8	Str.		
	4	- 7	- 3	E <sup>b</sup> S	6.0	55.3			81	10°	Cist.		
	6	- 7	- 1	E <sup>b</sup> S	4.8				79	10°	Cist.		
	8	- 7	- 0	E	4.8	55.5	-29.9	0.3	79	7°	Cicu.	E	
	10	- 7	100 58	E	4.0		-31.1	0.3	78	8°	Cicu.		
	Noon	- 7	- 56	E	3.4	55.8	-31.4	0.3	78	10°	Cist.		
	2	- 8	- 55	E	3.5		-32.1	0.3	77	10	Ci. Cust.	E	
	4	- 8	- 53	E	2.8	56.3	-31.8	0.3	77	10°	Cist.		
	6	- 8	- 52	E	2.8		-34.3	0.2	76	10°	Cist.		
	8	- 8	- 51	E <sup>b</sup> S	2.2	57.6	-35.2	0.2	76	10°	Cist.		
	10	- 8	- 50	SE	2.5		-37.1	0.2	76	0			
	Mn.	- 8	- 49	SE	2.1	58.0			76	0			
March 17.	2	84 8	100 49	SE <sup>b</sup> E	1.5				75	0			
	4	- 8	- 48	SE <sup>b</sup> E	1.6	59.1			75	0			
	6	- 8	- 48	SE <sup>b</sup> E	1.5				74	0			
	8	- 8	- 47	E <sup>b</sup> S	2.2	59.8	-38.1	0.1	75	0			
	10	- 8	- 46	E <sup>b</sup> S	1.4		-37.4	0.1	75	0			
	Noon	- 8	- 46	E <sup>b</sup> S	0.0	61.1	-37.2	0.1	76	0			

<sup>1</sup> 10 a. m., noon. Thick down on the horiz. <sup>2</sup> 2 coloured mock-suns on the same level as the sun, and a patch lying vertically over it.



1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St Gr. m. m.	Temp. C	Vap tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 17.	2	84° 8'	100° 45'	E	1·8		-37·2	0·1	75	10°	Cist.		1
	4	- 8	- 44	E	1·8	762·1	-37·1	0·1	75	10°	Cist.		
	6	- 8	- 44	E	1·6		-37·7	0·1	75	0			
	8	- 8	- 43	E	2·2	63·0	-34·4	0·2	76	10°	Cist.		
	10	- 8	- 43	E <sup>b</sup> S	1·6		-35·4	0·2	76	0			
	Mn.	- 8	- 42	E <sup>b</sup> S	2·0	63·8			75	3	Cist.		
March 18.	2	84 8	100 41	E <sup>b</sup> S	1·6				78	9	Cist.	SE	2
	4	- 8	- 41	E <sup>b</sup> S	2·0	64·9			77	9	Str.		
	6	- 8	- 40	E <sup>b</sup> S	2·2				76	0			
	8	- 8	- 39	E <sup>b</sup> S	3·0	65·5	-36·1	0·2	76	10°	Cist.		
	10	- 8	- 39	E <sup>b</sup> N	2·4		-36·6	0·2	77	10°	Cist.		
	Noon	- 8	- 38	E <sup>b</sup> S	2·8	66·6	-36·1	0·2	76	10°	Cist.		
	2	- 8	- 37	E <sup>b</sup> S	4·3		-35·6	0·2	76	10°	Cicu.	SE	
	4	- 8	- 37	E <sup>b</sup> S	2·9	67·2	-34·5	0·2	77	10°	Cicu.		
	6	- 9	- 36	E <sup>b</sup> S	3·3		-32·6	0·2	77	10	Str.		
	8	- 9	- 36	E <sup>b</sup> S	2·8	67·5	-32·8	0·2	77	10°	Cist.		
	10	- 9	- 35	ESE	3·6		-33·2	0·2	77	10°	Cist.		
	Mn.	- 9	- 34	ESE	3·4	67·7			77	10°	Cist.		
March 19.	2	84 9	100 34	ESE	2·4				76	10°	Cist.		3
	4	- 9	- 33	SE <sup>b</sup> E	3·4	68·2			76	0			
	6	- 9	- 33	ESE	2·7				75	0			
	8	- 9	- 32	ESE	3·0	68·3	-37·2	0·2	76	10°	Cist.		
	10	- 9	- 31	ESE	3·3		-37·4	0·1	75	10	Ci. Cust.		
	Noon	- 9	- 31	ESE	3·4	68·7	-37·1	0·1	75	10°	Cicu.	ESE	
	2	- 9	- 30	ESE	2·3		-36·8	0·2	76	10	Ci. Cust.		
	4	- 9	- 29	SE <sup>b</sup> E	2·2	68·9	-37·8	0·1	75	10°	Cist.		
	6	- 9	- 29	ESE	1·9		-39·1	0·1	75	10°	Cist.		
	8	- 9	- 28	ESE	2·2	69·1	-40·2	0·1	74	10°	Cist.		
	10	- 9	- 28	ESE	2·2		-40·8	0·1	74	0			
	Mn.	- 9	- 28	ESE	2·9	69·0			75	0			
March 20.	2	84 9	100 28	ESE	2·0				74	10°			4
	4	- 9	- 28	ESE	2·3	69·3			74	0			
	6	- 9	- 28	ESE	2·0				74	0			
	8	- 9	- 28	E <sup>b</sup> S	2·8	69·6	-39·9	0·1	74	0			
	10	- 9	- 28	E <sup>b</sup> S	2·0		-39·5	0·1	75	0			
	Noon	- 9	- 28	E <sup>b</sup> S	2·8	70·1	-39·2	0·1	75	0			
	2	- 9	- 28	E <sup>b</sup> S	2·8		-39·2	0·1	74	0			
	4	- 9	- 28	E <sup>b</sup> S	2·5	70·2	-39·6	0·1	75	0			
	6	- 9	- 28	E <sup>b</sup> S	2·5		-40·7	0·1	74	0			
	8	- 9	- 28	E <sup>b</sup> S	2·5	70·8	-41·2	0·1	74	0			
	10	- 9	- 28	E <sup>b</sup> S	2·4		-40·9	0·1	74	0			
	Mn.	- 9	- 28	E <sup>b</sup> S	2·9	70·0			75	0			
March 21.	2	84 9	100 28	E	2·6				75	0			4
	4	- 9	- 28	E	2·8	69·9			74	0			
	6	- 9	- 28	E <sup>b</sup> S	3·0				74	0			
	8	- 9	- 28	E	2·6	69·4	-41·8	0·1	74	10°	Cist.		
	10	- 9	- 28	E	2·8		-40·9	0·1	74	0			
	Noon	- 9	- 28	E <sup>b</sup> N	2·8	69·3	-40·7	0·1	74	0			
	2	- 9	- 28	E	2·8		-40·2	0·1	74	0			
	4	- 9	- 28	E <sup>b</sup> S	3·1	69·2	-40·2	0·1	75	0			
	6	- 9	- 28	E <sup>b</sup> S	3·4		-40·1	0·1	74	0			
	8	- 9	- 28	E	3·1	68·7	-40·4	0·1	74	0			
	10	- 9	- 27	E <sup>b</sup> S	3·2		-40·2	0·1	74	10	Ci. Cust.		
	Mn.	- 9	- 27	E <sup>b</sup> S	3·1	68·3			74				

<sup>1</sup> Light ci. on the western sky. <sup>2</sup> The sun-screens for the thermometer-screen set up. <sup>3</sup> A few ci. in E.<sup>4</sup> Str. on the horiz. in N.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 22.	2	84° 9'	100° 26'	ESE	3.4				75				1
	4	- 9	- 25	ESE	3.4	767.9			74	10	Str.		
	6	- 9	- 24	ESE	3.1				74	0			
	8	- 9	- 23	EbS	3.3	67.8	-40.2	0.1	74	10°	Cist.		
	10	- 9	- 23	E	3.2		-39.3	0.1	74	4°	Cicu.		
	Noon	- 9	- 22	E	3.1	68.0	-38.3	0.1	74	3°	Cicu.		
	2	- 9	- 21	EbS	3.4		-38.3	0.1	75	0			
	4	- 9	- 20	EbS	3.2	67.8	-38.4	0.1	75	0			
	6	- 9	- 19	EbS	3.4		-38.6	0.1	75	0			
	8	- 9	- 19	ESE	3.7	67.8	-39.1	0.1	74	10°	Cist.		
	10	- 9	- 18	E	3.6		-39.4	0.1	75	0			
	Mn.	- 9	- 17	E	3.4	67.5			75	0			
March 23.	2	84 9	100 16	E	3.9				75	0			2
	4	- 9	- 15	EbN	3.8	67.4			74	0			
	6	- 9	- 15	E	4.8				74	0			
	8	- 9	- 14	E	4.0	67.2	-40.9	0.1	74	0			
	10	- 9	- 13	E	4.0		-40.2	0.1	74	0			
	Noon	- 9	- 12	EbN	4.2	67.2	-39.6	0.1	74	0			
	2	- 9	- 12	EbN	4.4		-39.2	0.1	74	0			
	4	- 9	- 11	EbN	5.0	67.7	-39.5	0.1	74				
	6	- 9	- 10	EbN	4.8		-39.4	0.1	74	10°	Cist.		
	8	- 9	- 9	EbN	4.7	66.4	-39.7	0.1	74	10°	Cist.		
	10	- 9	- 8	EbN	5.2		-39.9	0.1	75	10°	Cicu.		
	Mn.	- 9	- 8	EbN	4.2	66.0			74	0			
March 24.	2	84 9	100 7	E	5.0				74	10°	Cist.		3
	4	- 9	- 6	E	5.2	65.9			74	0			
	6	- 9	- 5	E	5.6				74	7	Cist.		
	8	- 9	- 4	E	5.0	65.9	-36.3	0.2	76	10	Ci. Cust.		
	10	- 9	- 3	E	5.6		-34.3	0.2	76	10	Ci. Cust.		
	Noon	- 9	- 2	E	6.4	65.4	-34.0	0.2	77	10	Ci. Cust.		
	2	- 9	- 2	E	5.7		-33.9	0.2	76	10	Ci. Cust.		
	4	- 9	- 1	E	5.2	65.2	-33.1	0.2	76	10	Ci. Cust.		
	6	- 9	- 0	E	5.8		-33.8	0.2	77	10	Ci. Cust.		
	8	- 9	99 59	EbS	5.0	65.3	-33.0	0.2	77	10	Cust.		
	10	- 9	- 58	E	5.2		-32.6	0.2	77	10	Cust.		
	Mn.	- 9	- 57	EbS	4.1	65.4			77	10	Cist.		
March 25.	2	84 9	99 57	SEbE	5.1				75	10	Cist.		4
	4	- 9	- 56	SEbE	4.2	66.6			77	9	Cist.		
	6	- 9	- 55	ESE	4.0				77	10°	Cist.		
	8	- 9	- 54	EbS	3.7	66.0	-35.1	0.2	76	0			
	10	- 9	- 53	EbS	3.8		-35.3	0.2	76	0			
	Noon	- 9	- 52	ESE	4.4	65.8	-35.1	0.2	76	0			
	2	- 9	- 52	ESE	3.6		-35.5	0.2	76	0			
	4.15	- 9	- 51	ESE	4.3	66.6	-36.1	0.2	76	0			
	6	- 9	- 50	ESE	4.3		-36.3	0.2	76	0			
	8	- 9	- 49	ESE	3.5	66.4	-37.8	0.1	75	10°	Cist.		
	10	- 9	- 49	EbS	4.2		-38.8	0.1	75	0			
	Mn.	- 9	- 48	EbS	3.6	66.1	-39.6	0.1	74	0			
March 26.	2	84 9	99 47	EbS	3.1		-40.5	0.1	74	0			
	4	- 9	- 47	ESE	3.0	66.7	-40.3	0.1	74	0			
	6	- 9	- 46	ESE	3.3		-41.2	0.1	78	0			
	8	- 9	- 46	ESE	3.7	67.3	-40.4	0.1	74	0			
	10	- 8	- 45	ESE	4.6		-39.3	0.1	74	0			
	Noon	- 8	- 44	ESE	4.4	68.0	-38.9	0.1	75	0			

<sup>1</sup> Str. on the horiz. from E to N. <sup>2</sup> 2 mock-suns. <sup>3</sup> Cicu. all round the horiz. on the southern and eastern skies.

<sup>4</sup> Faint ⊕ with faint traces of mock-suns and upper segment.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 26.	2	84° 8'	99° 44'	ESE	4.0		-38.6	0.1	75	0			
	4	- 8	- 43	ESE	4.4	768.3	-38.1	0.1	75	0			
	6	- 8	- 43	ESE	4.6		-38.3	0.1	75	0			
	8	- 8	- 42	ESE	4.0	68.8	-38.9	0.1	75	0			
	10	- 8	- 41	ESE	4.4		-39.0	0.1	75	0			
	Mn.	- 8	- 41	ESE	4.3	69.2	-39.1	0.1	75	0			
March 27.	2	84 8	99 40	ESE	4.6				75	1	Cist.		
	4	- 8	- 40	EbS	3.6	69.8	-40.4	0.1	74	0			m
	6	- 8	- 39	EbS	3.8				74	0			
	8	- 8	- 39	E	4.2	69.8	-40.3	0.1	74	0			
	10	- 8	- 38	E	3.7		-39.4	0.1	74	0			
	Noon	- 8	- 37	EbS	4.5	69.8	-38.7	0.1	75	0			
	2	- 8	- 37	EbS	4.2		-38.6	0.1	75	0			
	4	- 8	- 36	EbS	4.1	70.2	-38.7	0.1	75	0			
	6	- 8	- 36	ESE	4.2		-38.8	0.1	75	0			
	8	- 8	- 35	ESE	3.6	70.2	-39.2	0.1	75	0			1
	10	- 8	- 34	E	3.8		-40.0	0.1	75	0			
	Mn.	- 8	- 33	E	4.3	69.7	-39.9	0.1	74	0			
March 28.	2	84 8	99 32	E	4.3		-40.2	0.1	75	0			
	4	- 8	- 31	E	3.2	69.1	-40.2	0.1	74	10°	Cist.		2
	6	- 8	- 30	E	3.8		-40.6	0.1	74	10°	Cist.		3
	8	- 8	- 29	NEbE	3.5	67.8	-38.9	0.1	75	0			
	10	- 8	- 29	NEbE	4.2		-37.8	0.1	75	10	Ci.		
	Noon	- 8	- 28	NEbE	5.4	65.8	-36.9	0.1	75	10	Ci.		4
	2	- 8	- 27	NEbE	5.6		-36.1	0.2	76	2	Ci.	ESE	
	4	- 8	- 26	ENE	5.0	64.5	-35.6	0.2	76	1	Ci.	E	
	6	- 8	- 25	NEbE	4.6		-35.4	0.2	76	5°	Ci.		
	8	- 8	- 24	NEbE	4.2	63.4	-35.4	0.2	76	8°	Ci.		
	10	- 8	- 23	NEbE	3.3		-35.1	0.2	76	10°	Cist.		5
	Mn.	- 8	- 22	NEbE	3.7	62.5	-36.1	0.2	76	3	Str.		
March 29.	2	84 8	99 21	ENE	4.2				76	5°	Ci. Cist.		
	4	- 8	- 20	ENE	4.8	62.1			76	5	Cist.		6
	6	- 8	- 19	EbN	3.3				76	0			
	8	- 8	- 18	E	3.7	62.1	-36.7	0.2	76	0			
	10	- 8	- 17	EbN	3.1		-36.9	0.2		0			7
	Noon	- 7	- 16	EbN	3.7	62.5	-36.3	0.2	75	0			
	2	- 7	- 15	E	3.2		-36.1	0.2		0			8
	4	- 7	- 14	E	3.2	62.7	-36.3	0.2	75	0			
	6	- 7	- 13	E	3.6		-36.9	0.2	75	0			
	8	- 7	- 13	EbS	2.6	63.0	-37.7	0.1	75	0			
	10	- 7	- 13	EbS	2.6		-39.1	0.1	74	0			
	Mn.	- 8	- 13	EbS	1.9	62.8				0			
March 30.	4	84 8	99 13		0	63.2			74	0			
	6	- 8	- 13		0				74	0			
	8	- 8	- 13	SEbE	2.3	63.1	-39.1	0.1	74	0			
	10	- 8	- 13	SEbS	0.0		-38.1	0.1	74	0			
	Noon	- 8	- 13	SEbS	2.0	62.7	-37.0	0.1	75	0			
	2	- 8	- 13	SbE	2.6		-36.5	0.1	75	0			9
	4	- 8	- 13	SbW	2.8	62.7	-36.2	0.1	75	0			10
	6	- 8	- 13	SbW	2.6		-35.7	0.2	76	10	Ci.		11
	8	- 9	- 13	S	3.4	62.0	-35.6	0.2	76	3	Ci.		12
	10	- 9	- 13	S	3.0		-36.1	0.2	76	1	Ci.		
	Mn.	- 9	- 13	S	3.2	61.5			75	3	Ci.		

<sup>1</sup> The thermograph stopped. Was taken in to be overhauled. <sup>2</sup> ≡ down on the ice. <sup>3</sup> m. all round the horiz. <sup>4</sup> 2 mock-suns. <sup>5</sup> Str. on the horiz. <sup>6</sup> The sun bright red, 2 mock-suns. <sup>7</sup> Hung the hygrometer in a case covered with ice for verification at 9.30 a. m. At 10 a. m. it showed 78.7. <sup>8</sup> The hygrometer in the case 78.7. Hung it again in the screen. <sup>9</sup> A few ci. in SW. <sup>10</sup> Cirrus-belts, drift from SW, converging-point in S and N. <sup>11</sup> Strips of ci. from SW. <sup>12</sup> 8, 10 p. m. Cirrus-belts converging towards SW.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 31.	2	84° 9'	99° 14'	S <sup>b</sup> W	3.2				76	10°	Cist.		1 2 3 *° *°
	4	- 9	- 14	S	3.4	761.1			76	8	Ci.		
	6	- 9	- 14	S	3.2				76	5	Cist.		
	8	- 9	- 14	S	4.1	60.5	-31.1	0.3	77	10°	Cist.		
	10	- 9	- 14	S	4.4		-31.3	0.3	78	8°	Ci.	SW	
	Noon	- 9	- 14	S <sup>b</sup> W	5.1	60.3	-30.4	0.3	78	10°	Cist.		
	2	- 9	- 14	S <sup>b</sup> E	5.4		-29.4	0.3	79	10	Ci. Cust.		
	4	- 10	- 14	S <sup>b</sup> E	6.8	60.2	-28.1	0.4	79	5	Ci. Cist.	S	
	6	- 10	- 14	S	6.1		-26.1	0.5	80	10	Cist.		
	8	- 10	- 14	SSE	8.6	60.0	-25.5	0.5	81	10°	Cist.		
	10	- 10	- 14	SSE	7.7		-26.0	0.5	80	10	Ci. Cist.		
	Mn.	- 10	- 14	SSE	7.4	59.9			80	10	Cist.		
April 1.	2	84 10	99 14	SSE	5.2				80	10	Cist.		
	4	- 10	- 14	S <sup>b</sup> E	5.0	60.6	-25.0	0.5	81	8	Cist.		
	6	- 10	- 14	S <sup>b</sup> E	5.1				81	10	Cist.		
	8	- 10	- 15	S <sup>b</sup> E	6.1	61.7	-24.8	0.5	81	10	Str.		
	10	- 10	- 15	S <sup>b</sup> E	7.2		-24.7	0.5	80	10	Str.		
	Noon	- 11	- 15	SSE	8.2	62.9	-24.0	0.5	81	10	Str.		
	2	- 11	- 15	SSE	6.7		-25.0	0.5	80	10	Cust.	S	
	4	- 11	- 15	S	5.8	65.1	-26.7	0.4	79	5	Cicu. Str.	S	
	6	- 11	- 15	S <sup>b</sup> E	5.9		-28.2	0.4	78	0			
	8	- 11	- 15	S	5.9	66.7	-29.5	0.3	77	0			
	10	- 11	- 15	S <sup>b</sup> E	6.4		-30.5	0.3	77	0			
	Mn.	- 11	- 13	S <sup>b</sup> E	5.8	67.8			77	0			
April 2.	2	84 11	99 11	S <sup>b</sup> E	5.8				76	0			
	4	- 12	- 9	S <sup>b</sup> E	6.0	69.2			76	0			
	6	- 12	- 7	S <sup>b</sup> E	6.0				76	0			
	8	- 12	- 4	SSE	5.0	70.5	-32.4	0.3	76	0			
	10	- 12	- 2	SSE	5.1		-31.3	0.3	77	0			
	Noon	- 12	- 0	SSE	5.6	72.3	-30.4	0.3	76	0			
	2	- 12	98 58	SE <sup>b</sup> S	4.6		-30.3	0.3	76	0			
	4	- 13	- 56	SE <sup>b</sup> S	4.5	74.0	-30.1	0.3	77	0			
	6	- 13	- 54	SE <sup>b</sup> S	4.7		-30.1	0.3	76	0			
	8	- 13	- 52	SE <sup>b</sup> S	5.0	75.1	-29.8	0.3	76	0			
	10	- 13	- 50	SE	4.9		-29.2	0.3	76	0			
	Mn.	- 13	- 48	SE	5.0	76.6			75	0			
April 3.	2	84 13	98 46	SE	3.0				75	0			
	4	- 14	- 43	SSE	2.0	78.4			74	0			
	6	- 14	- 41	SE	3.5				76	0			
	8	- 14	- 39	SE	4.4	79.4	-29.4	0.3	77	0			
	10	- 14	- 37	SE <sup>b</sup> E	4.7		-28.9	0.3	77	0			
	Noon	- 14	- 35	SE <sup>b</sup> E	3.9	80.4	-27.6	0.4	78	0			
	2	- 14	- 33	ESE	3.9		-26.8	0.4	78	0			
	4	- 15	- 31	E <sup>b</sup> S	3.5	80.8	-27.6	0.4	79	0			
	6	- 15	- 29	E <sup>b</sup> S	4.8		-28.3	0.4	79	0			
	8	- 15	- 27	E <sup>b</sup> S	4.4	80.5	-29.2	0.3	79	0			
	10	- 15	- 25	E	4.4		-29.3	0.3	78	0			
	Mn.	- 15	- 22	E	3.8	80.5			78	0			
April 4.	2	84 15	98 19	E <sup>b</sup> N	2.6				80	0			
	4	- 15	- 16	ENE	2.7	80.6			78	0			
	6	- 15	- 14	E <sup>b</sup> S	2.8				79	0			
	8	- 16	- 11	NE <sup>b</sup> E	3.5	79.0	-31.1	0.3	79	0			
	10	- 16	- 8	NE <sup>b</sup> N	3.4		-29.8	0.3	80	0			
	Noon	- 16	- 5	NE <sup>b</sup> N	3.4	77.4	-29.0	0.3	81	0			

<sup>1</sup> Str. over the northern horizon, with a few ci. above. <sup>2</sup> Str. northern horiz. <sup>3</sup> Single ci. <sup>4</sup> Single ci. The hygrometer placed in the controlling case again 10.30 a. m.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 4.	2	84° 16'	98° 2'	NNE	4.4		-29.1	0.3	81	10°	Cicu.	ENE	
	4	- 16	97 59	NE <sup>b</sup> N	6.0	775.9	-27.4	0.4	82	10	Str.		
	6	- 16	- 57	NE	5.2		-26.9	0.4	82	10	Cist.		
	8	- 16	- 54	NE	3.0	74.1	-27.3	0.4	81	3	Ci.	E	
	10	- 16	- 51	NE	4.6		-25.4	0.5	82	10	Str.		
	Mn.	- 16	- 48	NE <sup>b</sup> E	4.0	72.7			83	10	Str.		
April 5.	2	84 16	97 45	NE <sup>b</sup> E	5.3				83	10°	Str.		
	4	- 16	- 42	ENE	5.0	72.4			81	10	Cist.	E	
	6	- 17	- 39	E	4.6				81	10°	Cicu. Str.		
	8	- 17	- 37	E <sup>b</sup> N	4.5	72.1	-27.1	0.4	81	1°	Cicu.	E	
	10	- 17	- 34	ENE	3.0		-28.7	0.3	81	10°	Cist.		
	Noon	- 17	- 31	NE <sup>b</sup> N	3.0	71.7	-28.4	0.4	81	8	Cist.	NE	
	2	- 17	- 28	N	3.2		-26.3	0.5	81	10	Cist.		*°
	4	- 17	- 25	NW <sup>b</sup> N	4.5	69.6	-25.1	0.5	82	10	Cist.		*°
	6	- 17	- 22	N <sup>b</sup> E	3.7		-24.0	0.5	82	10	Str.		*°
	8	- 17	- 20	NE <sup>b</sup> E	3.2	67.3	-23.3	0.6	84	10	Cist.		*°
	10	- 17	- 17	NE <sup>b</sup> E	2.2		-23.3	0.6	83	10°	Ci. Cist.	SE	*° <sup>1</sup>
	Mn.	- 17	- 14	E	2.4	66.8			83	10	Cist.		
April 6.	2	84 17	97 11	E	2.5				83	0			
	4	- 18	- 8	E	2.9	66.4			83	10°	Cist.		
	6	- 18	- 5	E	3.0				81	0			
	8	- 18	- 3	E	4.4	66.2	-29.0	0.3	81	0			
	10	- 18	- 0	E	4.3		-29.8	0.3	80	0			
	Noon	- 18	96 57	E	4.6	66.6	-30.5	0.3	80	10°	Cist.		
	2	- 18	- 54	E <sup>b</sup> S	5.2		-31.1	0.3	80	6°	Cist.		
	4	- 18	- 51	E <sup>b</sup> S	5.0	65.4	-32.1	0.3	79	10°	Cist.		
	6	- 18	- 48	E <sup>b</sup> S	4.1		-33.6	0.2	79	10°	Ci.		
	8	- 18	- 46	ESE	3.7	65.2	-34.9	0.2	78	10	Ci.		
	10	- 18	- 43	SE	3.5		-35.7	0.2	78	0			
	Mn.	- 18	- 40	SE	2.8	65.2			78	0			
April 7.	2	84 18	96 40	SE	3.0				78	0			
	4	- 18	- 39	S <sup>b</sup> E	2.3	65.9			78	1	Ci.		
	6	- 18	- 39	S	2.8				78	3	Cist.		
	8	- 18	- 39	S	3.5	67.2	-33.8	0.2	79	5	Cicu.		
	10	- 18	- 38	S	4.2		-31.5	0.3	80	10°	Ci. Cist.		
	Noon	- 19	- 38	S <sup>b</sup> W	4.1	70.1	-30.1	0.3	80	10°	Cist.		
	2	- 18	- 38	S	2.9		-29.5	0.3	81	10	Ci. Cust.	S	
	4	- 18	- 38	S <sup>b</sup> W	3.8	70.4	-28.1	0.4	81	10	Ci. Cust.	SW	
	6	- 18	- 38	S <sup>b</sup> W	3.2		-29.8	0.3	81	10°	Cist.		
	8	- 18	- 39	S	3.3	71.8	-32.1	0.3	81	10°	Cist.		
	10	- 18	- 39	S	3.5		-32.4	0.3	81	10°	Cist.		
	Mn.	- 18	- 39	S	3.5	72.7			80	10°	Cist.		
April 8.	2	84 18	96 39	S	3.0				80	0			
	6	- 18	- 39	S	3.2				80	0			
	8	- 18	- 39	S <sup>b</sup> W	2.8	74.8	-32.1	0.3	81	0			
	10	- 18	- 40	S <sup>b</sup> W	2.4		-31.8	0.3	81	0			
	Noon	- 18	- 40	SSW	2.6	75.8	-31.6	0.3	80	0			
	2	- 17	- 40	S <sup>b</sup> W	3.3		-31.2	0.3	81	0			
	4	- 17	- 40	S <sup>b</sup> W	2.4	77.2	-32.2	0.3	81	0			
	6	- 17	- 40	S <sup>b</sup> W	2.5		-32.1	0.3	81	0			
	8	- 17	- 41	SSW	2.4	77.6	-33.3	0.2	80	10°	Cist.		
	10	- 17	- 41	SW	2.2		-34.4	0.2	80	10°	Cist.		
	Mn.	- 17	- 41	SW	2.2	78.2			81	0			

<sup>1</sup> Ci. above, and a thin veil of cist. underneath. <sup>2</sup> Bank of cloud on the horiz. in SE. <sup>3</sup> m. and a single long strip of cloud towards N. <sup>4</sup> Bank of cloud on the horiz. in S.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 9.	2	81° 17'	96° 41'	SW	2.2				80	0			
	4	- 17	- 41	SW <sup>b</sup> S	2.5	779.1			80	0			
	6	- 17	- 42	SW <sup>b</sup> S	2.4				80	2	Ci.		
	8	- 17	- 42	SW <sup>b</sup> S	2.7	79.6	-34.2	0.2	80	10°	Cist.		
	10	- 17	- 42	SW	2.3		-33.0	0.2	80				
	Noon	- 17	- 42	SW	2.2	80.5	-31.5	0.3	80	0			
	2	- 17	- 43	SW <sup>b</sup> S	2.6		-31.2	0.3	81	0			
	4	- 17	- 43	SW <sup>b</sup> S	2.6	81.0	-32.1	0.3	81	0			
	6	- 17	- 43	SW <sup>b</sup> S	2.8		-32.3	0.3	81	0			
	8	- 17	- 43	SW	2.4	81.1	-34.0	0.2	81	0			
	10	- 17	- 43	SW	3.2		-34.0	0.2	80	0			
	Mn.	- 17	- 44	SW	2.7	81.2			80	0			
April 10.	2	84 17	96 44	SW	3.0				79	0			
	4	- 17	- 44	SW <sup>b</sup> W	2.1	81.8			81	0			
	6	- 17	- 44	SW <sup>b</sup> W	2.6				80	0			
	8	- 17	- 44	SW	2.5	82.0	-31.7	0.3	82	0			
	10	- 17	- 45	SW	3.1		-31.2	0.3	81	0			
	Noon	- 17	- 45	SW	2.6	82.5	-30.1	0.3	81				
	2	- 17	- 45	SW <sup>b</sup> W	2.7		-29.3	0.3	81	0			
	4	- 17	- 45	SW <sup>b</sup> W	2.5	82.5	-29.6	0.3	81	0			
	6	- 17	- 45	SW <sup>b</sup> W	2.7		-30.5	0.3	81	0			
	8	- 17	- 46	SW <sup>b</sup> W	2.8	82.7	-31.5	0.3	81	0			
	10	- 17	- 46	W	2.2		-32.1	0.3	80	0			
	Mn.	- 17	- 46	W	2.2	83.3			81	0			
April 11.	2	84 17	96 46	W <sup>b</sup> S	2.2				81	0			
	4	- 17	- 46	W <sup>b</sup> S	1.6	81.3			81	0			
	6	- 17	- 47	SW <sup>b</sup> W	2.0				81	0			
	8	- 17	- 47	NW <sup>b</sup> W	2.8	81.2	-32.0	0.3	80	0			
	10	- 17	- 47	NW <sup>b</sup> W	2.3		-30.3	0.3	80	0			
	Noon	- 17	- 47		0	80.2	-28.6	0.3	81	0			
	2	- 17	- 47	N <sup>b</sup> W	1.6		-27.9	0.4	81	0			
	4	- 17	- 47	N	2.2	79.3	-29.1	0.3	81	0			
	6	- 17	- 48	NE	1.7		-29.3	0.3	81	10°	Ci.	W	
	8	- 17	- 48	NE <sup>b</sup> E	2.8	78.5	-30.6	0.3	81	0			
	10	- 17	- 48	NE <sup>b</sup> E	2.3		-31.5	0.3	81	10°	Ci.		
	Mn.	- 17	- 48	NE	1.8	77.1			81	10°	Ci.		
April 12.	2	84 17	96 48	NE	2.3				81	2°	Ci.		
	4	- 17	- 48	NE <sup>b</sup> E	2.5	75.3			77	10°	Cist.		2
	6	- 17	- 49	E <sup>b</sup> N	2.2				82	0			
	8.15	- 17	- 49	NE	2.7	73.7	-28.1	0.4	82	0			
	10	- 17	- 49	E <sup>b</sup> N	2.2		-27.5	0.4	83	0			
	Noon	- 17	- 49	NE	2.5	71.8	-27.4	0.4	82	0			
	2	- 17	- 49	ENE	2.3		-28.1	0.4	83	10°	Ci.	W	3
	4	- 17	- 49	NE	2.6	70.3	-28.1	0.4	83	10°	Cist.		4
	6	- 17	- 50	E <sup>b</sup> N	2.0		-28.1	0.4	83	0			
	8	- 17	- 50	SE <sup>b</sup> E	1.9	68.2	-28.4	0.4	83	10°	Cist.	SE	5
	10	- 17	- 50	S <sup>b</sup> E	1.9		-29.2	0.3	82	10°	Cist.		6
	Mn.	- 17	- 50	S <sup>b</sup> E	1.7	66.2			82	0			7
April 13.	2	84 17	96 50	S <sup>b</sup> E	0.0				82	0			
	4	- 17	- 50	SW <sup>b</sup> S	1.6	64.9			83	10°	Cist.		
	6	- 17	- 50	SW <sup>b</sup> W	1.8				83	10	Str.		≡
	8	- 17	- 51	SW <sup>b</sup> S	1.4	63.8	-24.0	0.5	85	10	Str.		≡
	10	- 17	- 51		0		-22.9	0.7	86	10	Str.		≡
	Noon	- 17	- 51	S <sup>b</sup> E		62.7	-21.3	0.7	87	10	Str.		≡

<sup>1</sup> 2 faint mock-suns. <sup>2</sup> Looming of the ice round the horiz <sup>3</sup> — on the instruments. <sup>4</sup> A few ci. <sup>5</sup> Dark bank on the horiz. in SE. 9 p.m. Temporary thick ≡. <sup>6</sup> Banks of str. and cust. over SE and NW. <sup>7</sup> Some str. cu. over the horiz. SE.

1895. Day.	H l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 13.	2	84° 17'	96° 51'	S b W	2.0		-21.0	0.7	88	10	Str.		≡ — <sup>2</sup> ≡
	4	- 17	- 51		0	762.0	-20.9	0.7	89		Str.		
	6	- 17	- 51		0		-21.4	0.7	89	10	Str.		
	8	- 17	- 52	E b S	0.0	60.7	-22.3	0.8	89	10°	Ci.		
	10	- 17	- 52	SSW	2.1		-24.5	0.6	88	10	Cust.	NE	
	Mn.	- 17	- 52	SSW	2.0	59.8			88	10°	Cist.		
April 14.	2	84 17	96 52		0				87	10	Str.		* *
	4	- 17	- 52	SSW	2.6	59.5			88	10	Str.		
	6	- 17	- 52	S b W	2.0				88	10	Str.		
	8	- 17	- 53	SW b S	0.0	59.1	-22.0	0.7	89	10	Ci. Cust.	E	
	10	- 17	- 53	NW b W	1.6		-21.8	0.7	89	10	Ci. Cust.	E	
	Noon	- 17	- 53	NW b N	0.0	59.0	-21.7	0.7	88	10	Ci. Cust.	E	
	2	- 17	- 53	N b E	1.4		-20.0	0.8	89	10	Ci. Cust.	ENE	
	4	- 17	- 53	N b E	2.0	59.4	-20.2	0.8	89	10	Cust.	E	
	6	- 17	- 53	N b E	1.7		-20.3	0.8	89	10	Ci. Cust.	ENE	
	8	- 17	- 51	N b E	2.4	60.0	-21.4	0.7	89	9	Cicu.		
	10	- 17	- 49	NNE	2.2		-25.9	0.5	86	3°	Ci.	N	
	Mn.	- 17	- 47	N b E	3.0	60.2			86	2	Ci.		
April 15.	2	84 17	96 45	NE b E	2.3				84	1	Cu.	NE	
	4	- 17	- 43	NE b N	2.3	61.6			90	4	Ci.	E	
	6	- 17	- 41	N b E	2.0				84	0			
	8	- 17	- 39	N b E	2.1	61.4	-26.5	0.5	84	0			
	10	- 17	- 38	N	2.0		-26.1	0.5	85	0			
	Noon	- 17	- 36	N b E	2.2	62.2	-25.9	0.5	85	0			
	2	- 17	- 34	N b E	1.7		-26.8	0.5	86	0			
	4	- 17	- 32	N b E	1.6	63.0	-26.0	0.5	86	0			
	6	- 17	- 30	N b W	2.5		-26.2	0.5	85	0			
	8	- 17	- 28	N b W	2.0	63.5	-26.8	0.4	85	0			
	10	- 17	- 26	N b W	2.0		-28.8	0.3	85	0			
	Mn.	- 17	- 24	N b E	2.2	64.0			84	0			
April 16.	2	84 17	96 23	N b E	1.8				82	0			
	4	- 17	- 21	NNE	1.9	64.7			82	0			
	6	- 17	- 19	NNE	1.9				82	0			
	8	- 17	- 17	NE	2.2	65.0	-28.4	0.4	85	9°	Cist.		
	10	- 17	- 15	NE b N	2.9		-26.8	0.5	86	10	Cist.		
	Noon	- 17	- 13	NE b N	2.8	65.9	-27.1	0.4	84	10°	Ci.		
	2	- 17	- 11	N b E	2.8		-26.9	0.4	85	10°	Cicu.	NE	
	4	- 17	- 9	NNE	3.5	66.0	-27.3	0.4	84	0			
	6	- 17	- 8	NNE	4.0		-27.6	0.4	84	10°	Ci. Cist.		
	8	- 17	- 6	NNE	3.0	66.1	-27.2	0.4	84	10	Cist.		
	10	- 17	- 4	NE b N	3.5		-27.3	0.4	85	10	Ci. Cust.	NE	
	Mn.	- 17	- 2	NE b N	4.6	65.9			83	3°	Ci.		
April 17.	2	84 17	96 0	NE b N	2.8				84	1	Ci.		
	4	- 17	95 58	NE b N	2.8	65.9	-30.8	0.3	85	0			
	6	- 17	- 56	NE b N	3.3				85	0			
	8	- 17	- 54	NE b N	4.5	64.8	-30.0	0.3	85	0			
	10	- 17	- 53	NE b N	4.2		-29.8	0.3	83	0	Cist.		
	Noon	- 17	- 51	NE b N	4.7	64.2	-29.1	0.3	85	10°	Cist.		
	2	- 17	- 51	NE b N	4.5		-28.3	0.4	82	10°	Cist.		
	4	- 17	- 51	NE b N	4.3	63.8	-28.6	0.3	82	10°	Cist.		
	6	- 17	- 49	NE b N	4.6		-28.9	0.3	82	10°	Cist.		
	8	- 16	- 45	NE	5.4	63.0	-28.2	0.4	83	10	Cist.		
	10	- 16	- 42	NE	5.0		-27.7	0.4	84	10	Cist.		
	Mn.	- 16	- 38	NE	5.0	62.0			85	10	Cist.		

<sup>1</sup> 3 bright distinct mock-suns.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 18.	2	84° 16'	95° 35'	NE	4.4				85	10°	Ci.		1
	4	- 16	31	NE <sup>b</sup> E	5.1	761.0			84	0			
	6	- 16	- 23	NE <sup>b</sup> E	5.2				84	5	Ci.		
	8	- 16	- 24	NE	5.8	59.7	-27.3	0.4	85	10°	Cicu.		
	10	- 16	- 21	NE	6.9		-25.8	0.5	84	10°	Cist.		
	Noon	- 16	- 17	NE	6.7	58.9	-25.3	0.5	83	10°	Ci. Cust.		
	2	- 15	- 14	NE	6.6		-23.9	0.6	87	10°	Cicu.	E	
	4	- 15	- 10	NE	6.4	58.2	-22.7	0.6	86	10°	Ci. Cust.	ESE	
	6	- 15	- 7	NE	7.4		-22.8	0.6	86	10°	Ci. Cist.		
	8	- 15	- 3	NE	6.6	57.5	-23.9	0.5	84	10°	Ci. Cist.	E	
	10	- 15	0	NE	6.7		-26.0	0.5	83	2°	Cist.		
	Mn.	- 15	94 56	NE	5.2	56.3			82	3	Ci.		
April 19.	2	84 15	94 53	NNE	6.1				81	3°	Ci.		3
	4	- 15	49	NE <sup>b</sup> N	5.5	56.0			80	1	Cust.		
	6	- 15	46	NE	6.2				81	3	Cicu.		
	8	- 14	42	NE	6.4	55.4	-27.3	0.4	81	0			
	10	- 14	39	NE	5.2		-26.4	0.5	80	10°	Cist.		
	Noon	- 14	36	NE	6.1	55.7	-26.2	0.5	82	3°	Ci.		
	2	- 14	32	NE	6.5		-25.0	0.5	81	10°	Cicu.	ENE	
	4	- 14	29	NE	5.2	56.3	-24.2	0.5	80	10°	Cist.		
	6	- 14	26	NE	5.4		-24.2	0.5	80	10°	Cu.	NE	
	8	- 14	26	NE	5.5	56.7	-24.9	0.5	82	10°	Cust.	NE	
	10	- 14	27	NE	4.2		-26.1	0.5	81	10°	Cicu.	NE	
	Mn.	- 14	27	NE <sup>b</sup> N	3.4	57.3			82	0			
April 20.	2	84 14	94 27	NE <sup>b</sup> N	4.0				81	0			5
	4	- 14	28	NE <sup>b</sup> N	5.3	57.8			82	0			
	6	- 14	28	NE <sup>b</sup> N	5.0				82	0			
	8	- 14	28	N <sup>b</sup> E	3.4	57.9	-27.8	0.4	83	0			
	10	- 14	28	N <sup>b</sup> E	4.3		-27.8	0.4	84	3°	Ci.		
	Noon	- 13	29	N <sup>b</sup> E	5.0	58.5	-27.3	0.4	84	10°	Cist.		
	2	- 13	29	N <sup>b</sup> W	4.3		-27.1	0.4	85	4°	Ci.		
	4	- 13	29	N	3.6	58.2	-27.2	0.4	84	0			
	6	- 13	30	N	4.0		-28.0	0.4	84	0			
	8	- 13	30	N <sup>b</sup> W	4.0	59.6	-28.6	0.3	83	0			
	10	- 13	30	N <sup>b</sup> W	3.7		-29.4	0.3	83	0			
	Mn.	- 13	31	N <sup>b</sup> W	3.0	60.0			82	0			
April 21.	2	84 13	94 31	NW <sup>b</sup> N	3.2				83	0			6
	4	- 13	31	NW <sup>b</sup> N	3.4	60.4			82	0			
	6	- 13	31	NW <sup>b</sup> N	4.0				82	1	Cist.		
	8	- 13	32	NW	4.0	60.6	-30.1	0.3	82	0			
	10	- 13	32	NW	4.3		-29.2	0.3	82	0			
	Noon	- 13	32	NW <sup>b</sup> W	4.5	61.3	-28.5	0.4	83	0			
	2	- 13	33	NW <sup>b</sup> W	4.0		-27.9	0.4	83	0			
	4	- 13	33	WNW	4.4	61.5	-27.9	0.4	83	0			
	6	- 13	33	W <sup>b</sup> N	3.4		-28.1	0.4	83	0			
	8	- 13	34	W <sup>b</sup> N	3.1	61.9	-28.5	0.4	83	0			
	10	- 13	34	W <sup>b</sup> N	3.2		-29.7	0.3	83	10°	Cist.		
	Mn.	- 13	34	W <sup>b</sup> N	3.4	61.5			83	10°	Cist.		
April 22.	2	84 13	94 35	W <sup>b</sup> N	2.3				83	2	Ci.		m
	4	- 13	35	W <sup>b</sup> N	3.0	61.9			83	0			
	6	- 13	35	W	3.2				83	10°			
	8	- 13	35	SW <sup>b</sup> W	4.0	59.9	-28.6	0.3	83	10°	Cicu.		
	10	- 13	36	SW <sup>b</sup> W	4.0		-27.1	0.4	83	10°	Ci. Cist.	SW	
	Noon	- 13	36	SW	4.6	59.0	-25.4	0.5	82	10°	Ci. Cist.		

<sup>1</sup> Cirrus-strips in NE to SW. <sup>2</sup> Some ci. in E. <sup>3</sup> Driving snow from the ground. <sup>4</sup> 12.15 to 12.30 p. m. Cicu. came up suddenly from E. <sup>5</sup> Ci. in bows from S to N. <sup>6</sup> 2 small mock-suns.



1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 22.	2	84° 13'	94° 36'	SW	3.8		-24.6	0.5	82	9°	Ci. Cist.	W	*
	4	- 13	- 36	SW	4.6	75.6	-24.4	0.5	82	3°	Ci.		
	6	- 13	- 36	SW	4.3		-24.8	0.5	82	10°	Ci. Cist.		
	8	- 13	- 35	SW	3.6	56.1	-24.8	0.5	82	10°	Cist.		*
	10	- 13	- 35	SW	2.8		-26.9	0.4	83	3°	Ci.	W	
	Mn.	- 13	- 35	SW	2.4	54.2			83	10°	Cist.		
April 23.	2	84 13	94 34	W <sup>b</sup> N	2.8				83	10	Ci.		
	4	- 13	- 34	WSW	2.6	53.8			83	0			
	6	- 13	- 33	W <sup>b</sup> N	2.7				83	10°	Cist.		
	8.15	- 13	- 33	W <sup>b</sup> N	2.2	53.3	-31.0	0.3	82	0			
	10	- 13	- 33	W <sup>b</sup> N	2.4		-30.9	0.3	81	0			
	Noon	- 13	- 32	W <sup>b</sup> N	2.4	53.0	-31.1	0.3	82	10°	Cist.		
	2	- 13	- 32	NW <sup>b</sup> W	3.4		-30.8	0.3	82	0			
	4	- 13	- 31	NW <sup>b</sup> N	3.0	53.0	-30.1	0.3	82				
	6	- 13	- 31	N <sup>b</sup> W	2.5		-29.8	0.3	82	0			
	8	- 13	- 30	NW <sup>b</sup> N	2.9	52.3	-31.0	0.3	82	10°	Cist.		
	10	- 13	- 30	N <sup>b</sup> W	2.8		-31.9	0.3	82	0			
	Mn.	- 13	- 30	NNE	2.9	51.6			81	0			
April 24.	2	84 13	94 29	N <sup>b</sup> E	2.0				81	0			
	4	- 13	- 29	N <sup>b</sup> E	3.0	51.2			81	0			
	6	- 13	- 28	N <sup>b</sup> E	2.3				80	0			
	8	- 13	- 28	N <sup>b</sup> E	2.6	50.2	-32.1	0.3	81	0			
	10	- 13	- 28	N <sup>b</sup> E	1.9		-30.9	0.3	81	0			
	Noon	- 13	- 27	N <sup>b</sup> E	1.7	49.3	-30.0	0.3	82	0			
	2	- 13	- 27	N <sup>b</sup> E	1.6		-29.7	0.3	82	0			
	4	- 13	- 27	NE	2.0	48.5	-30.4	0.3	82	0			
	6	- 13	- 27	NE <sup>b</sup> E	1.4		-30.7	0.3	82	0			
	8	- 13	- 25	NE <sup>b</sup> E	2.1	46.2	-32.0	0.3	82	0			
	10	- 13	- 24	NE <sup>b</sup> E	2.2		-32.9	0.2	81	0			
	Mn.	- 13	- 23	NE <sup>b</sup> E	2.4	46.2			82	0			
April 25.	2	84 13	94 22	NE <sup>b</sup> E	2.2				81	0			
	4	- 13	- 20	NE	2.2	45.9			81	0			
	6	- 13	- 19	NE	2.0				81	0			
	8	- 13	- 18	NE	2.0	46.2	-30.7	0.3	81	0			
	10	- 13	- 17	NE <sup>b</sup> E	2.3		-30.1	0.3	81	0			
	Noon	- 13	- 15	NNE	2.0	46.8	-29.6	0.3	82	0			
	2	- 13	- 14	N	2.2		-29.1	0.3	82	0			
	4	- 13	- 13	N	2.4	47.7	-29.3	0.3	82	0			
	6	- 13	- 12	N <sup>b</sup> W	2.0		-29.8	0.3	82	5°	Ci.		
	8	- 13	- 10	NW <sup>b</sup> N	1.4	48.3	-29.5	0.3	82	10°	Cist.		
	10	- 13	- 9	NNW	2.2		-31.1	0.3	82	10°	Cist.		*
	Mn.	- 13	- 8	N <sup>b</sup> W	1.6	49.3			82				
April 26.	2	84 13	94 7	N <sup>b</sup> E	0.0				82	2°	Ci.		<sup>1</sup>
	4	- 18	- 5	N <sup>b</sup> W	1.5	49.9			82		Ci.		<sup>2</sup>
	6	- 13	- 4	N <sup>b</sup> E	1.4				82	5	Ci.		
	8	- 13	- 3	NW <sup>b</sup> N	2.2	50.7	-30.7	0.3	81	0			
	10	- 13	- 2	N	2.2		-30.2	0.3	80	10°	Cist.		
	Noon	- 13	- 0	N <sup>b</sup> W	2.9	51.7	-29.8	0.3	80	10°	Cist.		
	2	- 13	93 59	N <sup>b</sup> W	2.8		-30.2	0.3	81	10°	Cist.		
	4	- 13	- 58	NW <sup>b</sup> W	4.3	53.2	-30.1	0.3	82	10°	Cist.		
	6	- 13	- 57	NW	5.0		-30.3	0.3	81	10°	Ci.		<sup>3</sup>
	8	- 12	- 55	WNW	3.5	54.0	-31.1	0.3	81	5°	Ci.		
	10	- 12	- 54	NW	3.2		-31.3	0.3	81	0			
	Mn.	- 12	- 53	NW <sup>b</sup> N	3.1	54.9			81	0			

<sup>1</sup> Ci. on the eastern and western skies. <sup>2</sup> Clouds slowly rising from N to S. <sup>3</sup> 6, 8 p. m. Cirrus-belts converging towards W and E.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 27.	2	84° 12'	93° 52'	NW	2.4				81				
	4	- 12	- 50	NW	2.2	756.1			80	0			
	6	- 12	- 49	NW	2.8				80	0			
	8	- 12	- 48	NW	3.1	57.3	-30.0	0.3	81	0			
	10	- 12	- 47	NW	3.1		-29.5	0.3	81	0			
	Noon	- 12	- 45	NW	3.9	58.9	-28.9	0.3	81	10°	Cist.		
	2	- 12	- 44	NW	2.9		-28.6	0.3	81	0			
	3	- 12	- 44				-28.9	0.3	81	0			
	4	- 12	- 43	NW <sup>b</sup> W	2.9	60.1	-28.9	0.3	81	0			
	6	- 12	- 43	NW	2.4		-28.5	0.4	80	0			
	8	- 12	- 44	W <sup>b</sup> N	2.1	61.2	-29.1	0.3	80	0			
	10	- 13	- 45	NW <sup>b</sup> W			-29.1	0.3	80	0			
	Mn.	- 13	- 47	NW	2.0	61.4	-29.8	0.3	80	0			
April 28.	2	84 13	93 48	NW <sup>b</sup> N	1.6				80				
	4	- 13	- 49	W <sup>b</sup> N		61.9			80	0			
	6	- 13	- 50	SW <sup>b</sup> W					79	0			
	8	- 13	- 51	SW	1.4	62.3	-29.1	0.3	79	0			
	10	- 14	- 52	SW	2.0		-28.6	0.3	78	0			
	Noon	- 14	- 53	SW <sup>b</sup> S	2.4	62.7	-27.5	0.4	78	0			
	2	- 14	- 54	SW <sup>b</sup> S	2.6		-27.6	0.3	79	0			
	4	- 14	- 56	SSW	3.4	62.5	-28.3	0.3	80	0			
	6	- 14	- 57	S <sup>b</sup> W	3.5		-28.3	0.3	81	0			
	8	- 15	- 58	S <sup>b</sup> E	3.3	62.3	-28.5	0.3	82	0			
	10	- 15	- 59	S <sup>b</sup> E	3.3		-29.5	0.3	81	0			
	Mn.	- 15	94 0	S <sup>b</sup> E	4.2	61.6			81	0			
April 29.	2	84 15	94 1	S <sup>b</sup> E	4.5				83	0			
	4	- 15	- 2	SE <sup>b</sup> S	4.5	60.5			83	0			
	6	- 15	- 3	SE <sup>b</sup> S	4.2				81	0			
	8	- 16	- 5	SE	5.5	59.5	-26.6	0.4	81	0			
	10	- 16	- 6	SE	4.4		-25.1	0.5	77	0			
	Noon	- 16	- 7	SE	5.9	59.2	-24.1	0.5	76	10°	Cust.		
	2	- 16	- 8	SE	7.2		-24.2	0.5	78	10°	Cieu.		
	4	- 16	- 9	SE	5.3	59.5	-24.8	0.5	81	10°	Cieu.		
	6	- 16	- 10	SE	5.0		-25.5	0.5	80	6°	Cieu.		
	8	- 16	- 7	SE <sup>b</sup> E	4.8	59.9	-26.5	0.5	81	1°	Ci.		
	10	- 16	- 3	SE <sup>b</sup> E	3.7		-27.1	0.4	81	0			
	Mn.	- 16	- 0	SE <sup>b</sup> E	4.5	60.3			81	0			
April 30.	2	84 16	93 57	SE <sup>b</sup> E	2.8				81	0			
	4	- 16	- 54	ESE	2.6	61.3			80	0			
	6	- 15	- 51	E <sup>b</sup> S	2.2				76	0			
	8	- 15	- 48	SE	2.2	62.2	-26.0	0.4	75	0			
	10	- 15	- 45	E <sup>b</sup> S	1.5		-24.5	0.4	72	0			
	Noon	- 15	- 42	E <sup>b</sup> S	1.8	63.5	-23.7	0.5	72	0			
	2.30	- 15	- 38		0		-23.9	0.5	74	0			
	4	- 15	- 36		0	64.2	-24.0	0.5	77	0			
	6	- 14	- 33	SW <sup>b</sup> S	2.4		-24.2	0.5	76	0			
	8	- 14	- 30	SW <sup>b</sup> S	2.6	64.9	-24.4	0.4	76	0			
	10	- 14	- 27	W <sup>b</sup> N	2.7		-25.3	0.5	79	0			
	Mn.	- 14	- 24	W <sup>b</sup> S	3.4	64.7			81	10	Cu. Cust.	NW	
May 1.	2	84 14	93 21	W <sup>b</sup> S	4.0				81	10°	Cist.		
	4	- 14	- 18	W <sup>b</sup> S	3.6	64.6			82	4	Cieu.	NW	
	6	- 14	- 15	W <sup>b</sup> N	4.0				84	6	Ci.	NW	
	8	- 13	- 12	W	4.2	64.2	-23.2	0.6	83	7°	Cieu.	NNW	
	10	- 13	- 13	WSW	4.1		-21.7	0.7	82	10°	Cist.	NW	
	Noon	- 13	- 13	SW <sup>b</sup> W	4.4	64.4							

<sup>1</sup> Blue bank of ≡ between E and NW.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 1.	2	84° 13'	93° 14'	SW <sup>b</sup> W	4.4		-20.2	0.8	84	10°	Cicu.	NW	
	4	- 14	- 14	WSW	4.9	764.1	-20.5	0.8	84	6°	Ci.		
	6	- 14	- 15	SSW	3.3		-20.2	0.8	84	0			1
	8	- 14	- 15	W	3.8	63.7	-20.1	0.7	82	10°	Cist.		*
	10	- 14	- 16	SW <sup>b</sup> S	2.0		-19.8	0.7	82	10	Str.		*
	Mn.	- 15	- 16	SSW	2.5	63.4			83	10	Str.		
May 2.	2	84 15	93 17	S <sup>b</sup> W	3.5				83	10	Str.		2
	4	- 15	- 17	S <sup>b</sup> W	3.2	61.4			79	0			
	6	- 16	- 18	S <sup>b</sup> E	3.5				77	0			
	8	- 16	- 18	S <sup>b</sup> E	4.3	59.8	-21.5	0.7	90	10	Cist.		
	10	- 16	- 19	S <sup>b</sup> E	5.2		-19.6	0.8	88	10	Cist.		3
	Noon	- 17	- 19	S <sup>b</sup> E	7.4	57.7	-21.0	0.7	88	1	Ci.		
	2	- 17	- 20	SE <sup>b</sup> S	5.6		-20.3	0.8	88	10	Cicu.	SW	
	4	- 17	- 20	SSE	9.5	55.8	-17.1	1.0	90	10	Str.		
	6	- 18	- 20	SSE	8.4		-16.3	1.0	87	10	Str.		*°
	8	- 18	- 21	S <sup>b</sup> E	7.9	54.2	-15.5	1.1	88	10	Cist.		*°
	10	- 18	- 21	S	8.3		-15.3	1.2	88	10	Cist.		*°
	Mn.	- 19	- 22	S	5.9	54.0			87	10	Cist.		*
May 3.	2	84 19	93 22	S <sup>b</sup> E	7.0				88	10	Cist.		*
	4	- 20	- 23	S <sup>b</sup> E	7.5	54.2			88	10	Str.		*
	6	- 20	- 23	SE <sup>b</sup> S	7.3				88	10	Str.		*
	8	- 20	- 24	SE <sup>b</sup> S	7.9	54.2	-15.6	1.1	87	10	Cust.		
	10	- 21	- 24	SE <sup>b</sup> S	9.7		-17.0	1.0	86	10	Cust.	SSE	4
	Noon	- 21	- 25	SE <sup>b</sup> S	9.8	53.7	-16.5	1.0	85	10	Cust.		
	2	- 22	- 25	SE <sup>b</sup> S	8.7		-16.2	1.1	85	10	Cust.	SE	
	4	- 22	- 26	SE <sup>b</sup> S	7.2	54.7	-16.6	1.1	85	10	Cust.		
	6	- 22	- 26	SE	7.0		-17.5	0.9	85	10	Cust.		
	8	- 23	- 27	SE	7.0	54.8	-19.0	0.8	85	10	Cust.	S	
	10	- 23	- 27	SE	7.3		-19.6	0.8	84	10	Cust.	SE	
	Mn.	- 24	- 28	SE	4.6	54.8			85	8	Cust.		
May 4.	2	84 24	93 28	SE <sup>b</sup> E	4.4				87	9	Cist.	SE	
	4	- 24	- 29	SE <sup>b</sup> E	4.7	54.9			86	10°	Cist.	SE	
	6	- 25	- 29	SE <sup>b</sup> E	7.7				84	10	Str.		
	8	- 25	- 30	ESE	10.0	55.7	-18.8	0.8	83	6°	Ci.	SE	
	10	- 25	- 30	ESE	9.0		-19.6	0.8	81	10°	Cist.		5
	Noon	- 25	- 30	E <sup>b</sup> S	7.0	57.2	-18.7	0.8	77	0	Ci.	ESE	
	2	- 25	- 22	E <sup>b</sup> S	8.2		-18.5	0.8	78	3	Ci.		
	4	- 25	- 12	E <sup>b</sup> S	8.6	58.5	-19.0	0.7	78	6°	Ci.		
	6	- 26	- 7	E <sup>b</sup> S	8.3		-19.5	0.7	78	5°	Ci.		
	8	- 25	- 3	E <sup>b</sup> S	6.3	59.8	-20.7	0.7	78	7°			
	10	- 25	- 0	E <sup>b</sup> S	6.3		-21.3	0.6	77	0			
	Mn.	- 26	92 56	E <sup>b</sup> S	3.8	60.8			78	0			
May 5.	2	84 26	92 53	E	4.0				81	0			
	4	- 26	- 50	E	4.1	61.8			81	0			
	6	- 26	- 46	E	4.4				79	0			
	8	- 26	- 43	E	4.5	62.4	-20.1	0.7	78	0			
	10	- 26	- 40	E	5.8		-19.6	0.8	79	10°	Cist.		
	Noon	- 27	- 36	E	5.8		-18.8	0.8	79	10°	Cist.		
	2	- 27	- 33	E	5.3		-18.3	0.8	79	0			
	4	- 27	- 30	E	5.7	63.7	-18.5	0.8	80	0			
	6	- 27	- 26	E	5.5		-18.1	0.8	80	10°	Cist.		
	8	- 27	- 23	E	5.7	64.1	-18.7	0.8	81	10°	Cist.		
	10	- 28	- 19	E	6.3		-19.3	0.7	81	0			
	Mn.	- 28	- 16	E	6.0	63.9			80	0			

<sup>1</sup> Thick all round the horiz. <sup>2</sup> Sheet of str. on the horiz, on the eastern sky. <sup>3</sup> Some low ci. 2 coloured  
 ⊕ with 2 mock-suns and tangent bows above each ring. <sup>4</sup> 10 a. m., noon. Driving snow from the ground.  
<sup>5</sup> 10 a. m., noon. Some solitary ci.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 6.	2	84° 28'	92° 13'	E	5.6				80	0			1
	4	- 28	- 9	E	6.0	763.4			79	0			
	6	- 28	- 6	E <sup>b</sup> N	7.2				78	0			
	8	- 28	- 3	E <sup>b</sup> N	7.0	62.8	-19.6	0.7	78	10°	Cist.		
	10	- 29	91 59	E <sup>b</sup> N	7.0		-19.4	0.7	78	10°	Cist.		
	Noon	- 29	- 56	E	8.8	61.9	-18.1	0.8	80	10°	Cist.		
	2	- 29	- 53	E	7.9		-17.7	0.9	82	10°	Cicu.	E	
	4	- 29	- 49	E <sup>b</sup> S	9.3	62.0	-17.4	1.0	85	10	Cist.		
	6	- 29	- 46	E <sup>b</sup> S	7.8		-17.1	1.0	83	10	Cist.		
	8	- 30	- 43	E <sup>b</sup> S	8.8	61.0	-17.2	1.0	84	10°	Ci. Cist.	E	
	10.15	- 30	- 39	E	9.0		-16.4	1.0	86	10	Ci. Cust.	ESE	
	Mn.	- 30	- 36	E	8.3	61.0			86	10	Cist.	E	
May 7.	2	84 30	91 32	E <sup>b</sup> S	7.2				87	10°	Cist.		
	4	- 30	- 29	E <sup>b</sup> S	8.4	61.1			86	9	Cist.	E	
	6	- 30	- 26	E	8.5				87	10	Cist.		
	8	- 31	- 22	E	8.4	61.2	-15.4	1.1	87	10	Cicu.	E	
	10	- 31	- 19	E	7.3		-15.6	1.2	86	10	Str.		
	Noon	- 31	- 16	E	7.7	60.8	-13.5	1.3	84	10°	Cist.		
	2	- 32	- 12	E	5.5		-13.1	1.3	82	9°	Cicu.		
	4	- 32	- 9	ESE	5.8	61.0	-12.8	1.4	83	10	Cicu.		
	6	- 32	- 6	ESE	5.0		-12.5	1.4	85	10	Cicu.		
	8	- 32	- 2	E <sup>b</sup> S	4.6	61.2	-11.9	1.6	88	5	Cist.		
	10	- 33	90 59	SE	5.8		-11.9	1.6	91	9°	Cicu.	SE	
	Mn.	- 33	- 56	SE <sup>b</sup> E	4.5	61.5			90	0			
May 8.	2	84 33	90 52	SE <sup>b</sup> E	4.8				92	10	Ci.		
	4	- 33	- 49	SE <sup>b</sup> E	4.5	61.3			91	10	Cist.		
	6	- 34	- 45	E <sup>b</sup> S	6.9				91	10	Ci.		
	8	- 34	- 42	SE <sup>b</sup> E	6.5	60.6	-12.7	1.5	88	3°	Cicu.	SE	
	10	- 34	- 40	SE	7.5		-13.0	1.4	87	10	Cicu.	SE	
	Noon	- 34	- 39	SE	6.8	60.6	-11.5	1.6	89	9°	Cicu.	S	
	2	- 34	- 38	SE	5.1		-11.4	1.6	87	10	Ci. Cust.	S	
	4	- 34	- 36	SSE	7.2	61.2	-12.5	1.2	75	0			
	6	- 34	- 35	SSE	4.8		-13.2	1.2	78	10	Ci. Cust.	S	
	8	- 34	- 34	SSE	5.5	62.1	-14.7	1.2	82	5	Cicu.	S	
	10	- 34	- 33	SE	6.5		-13.8	1.3	83	10	Cust.	S	
	Mn.	- 34	- 31	SE	7.0	62.5			85	9	Cicu.	SSE	
May 9.	2	84 34	90 30	SE	4.0				85	10	Cist.	S	2
	4	- 35	- 29	SE <sup>b</sup> S	4.8	63.3			88	0			
	6	- 35	- 27	SE	5.0				87	0			
	8	- 35	- 26	SE	5.2	64.2	-13.4	1.3	86	0			
	10	- 35	- 25	SE	4.8		-12.9	1.3	85	10°	Cist.		
	Noon	- 35	- 23	SE	5.1	64.9	-12.6	1.5	87	10°	Cist.		
	2	- 35	- 22	SE	6.4		-11.3	1.6	87	10	Ci. Cust.	S	
	4	- 35	- 21	SE	5.6	65.1	-11.3	1.6	86	0			
	6	- 36	- 19	SE	5.6		-11.5	1.6	86	10	Ci. Cust.		
	8	- 36	- 18	SE <sup>b</sup> S	3.8	65.4	-10.6	1.8	89	10	Str.		
	10	- 36	- 17	SE <sup>b</sup> S	5.6		-10.5	1.8	91	10	Cist.		
	Mn.	- 36	- 16	SE <sup>b</sup> S	5.0	65.6			92	10	Str.		
May 10.	2	84 36	90 14	SSE	5.0				93	10	Cust.	S	* * * * *
	4	- 36	- 13	SE <sup>b</sup> S	4.3	65.8			93	10	Str.		
	6	- 36	- 12	S <sup>b</sup> W	3.2				93	10	Str.	S	
	8	- 37	- 10	SSE	2.7	66.3	- 7.8	2.2	88	10	Str.		
	10	- 37	- 9	SE <sup>b</sup> S	3.8		- 8.3	2.1	87	10	Str.		
	Noon	- 37	- 8	SE	3.0	66.3	- 8.7	2.0	87	10	Str.		
	2	- 37	- 6	SE	4.6		- 8.9	1.9	86	10	Str.		
	4	- 37	- 5	SSE	4.3	66.2	- 9.7	1.9	89	10	Str.		

<sup>1</sup> Driving snow from the ground. <sup>2</sup> Light ci.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 10.	6	84° 37'	90° 4'	SE <sup>b</sup> S	4.0		-10.9	1.7	88	10	Str.		*°
	8	- 37	- 3	SE <sup>b</sup> S	4.0	765.8	-13.7	1.4	91	10°	Cist.		
	10	- 38	- 1	SE <sup>b</sup> S	3.2		-13.9	1.4	90	10°	Cist.		
	Mn.	- 38	- 0	SE	3.0	65.3			93	8°	Cicu.	E	
May 11.	2	84 38	89 59	SE <sup>b</sup> S	3.4				95	10	Str.		*°
	4	- 38	- 57	SE <sup>b</sup> S	3.2	64.9			95	10	Str.		
	6	- 38	- 56	SE <sup>b</sup> E	2.1				94	10°	Cist.		
	8	- 38	- 55	SE <sup>b</sup> E	4.4	64.3	-14.3	1.4	95	10	Cist.		*
	10	- 38	- 53	E <sup>b</sup> S	2.4		-11.3	1.7	95	3	Ci.		
	Noon	- 38	- 51	E <sup>b</sup> S	3.5	63.4	-10.9	1.8	93	3	Ci.		
	2	- 38	- 49	E <sup>b</sup> S	4.1		-11.1	1.5	80	3	Ci.	SSE	
	4	- 38	- 48	E <sup>b</sup> S	3.5	62.7	-11.5	1.5	82	10°	Cist.		
	6	- 38	- 46	E <sup>b</sup> S	3.5		-11.7	1.5	83	10°	Cist.		
	8	- 38	- 43	SE <sup>b</sup> E	3.8	62.2	-12.3	1.5	87	10°	Str.		
	10.30	- 38	- 39	E <sup>b</sup> S	3.5		-13.2	1.4	89	10	Cust.	ESE	
	Mn.	- 38	- 37	E <sup>b</sup> S	3.8	61.3			89	10	Str.		
May 12.	2	84 38	89 34	E <sup>b</sup> S	4.6				89	10	Str.		
	4	- 38	- 31	ESE	5.6	61.0			89	10	Cist.		
	6	- 38	- 28	E <sup>b</sup> S	5.0				86	10	Cist.		
	8	- 38	- 25	SE <sup>b</sup> E	6.0	60.4	-11.9	1.6	89	10	Cust.		*°
	10	- 39	- 22	SE <sup>b</sup> E	6.0		-10.9	1.6	84	10	Str.		*°
	Noon	- 39	- 20	SE <sup>b</sup> E	4.8	59.9	-11.3	1.5	82	10°	Cist.		*°
	2	- 39	- 17	E <sup>b</sup> S	6.0		-11.5	1.5	84	10	Str.		
	4	- 39	- 14	E	6.8	59.0	-11.6	1.6	86	10	Ci. Cust.	S	*
	6	- 39	- 11	E <sup>b</sup> N	6.2		-12.6	1.5	89	2	Ci.	S	
	8	- 39	- 8	E <sup>b</sup> N	5.3	57.7	-13.6	1.4	87	4°	Ci.		
	10	- 39	- 5	E <sup>b</sup> N	6.6		-13.0	1.4	86	10	Cist.		
	Mn.	- 39	- 2	E <sup>b</sup> N	6.0	56.2			85	10	Cist.		
May 13.	2	84 39	88 59	E <sup>b</sup> N	4.8				85	10	Cist.		*°
	4	- 39	- 56	ENE	4.2	54.8			88	10	Str.		*°
	6	- 39	- 53	E <sup>b</sup> N	5.1				85	10	Str.		*
	8	- 39	- 50	E <sup>b</sup> N	3.8	53.4	-11.3	1.5	82	10	Str.		
	10	- 39	- 47	E <sup>b</sup> N	3.9		-10.7	1.6	82	10	Str.		
	Noon	- 39	- 45	E <sup>b</sup> N	3.6	52.5	-10.4	1.7	82	10	Str.		*
	2	- 39	- 42	NE <sup>b</sup> E	3.8		-10.1	1.7	85	10	Cu.	SE	*
	4	- 39	- 39	NE <sup>b</sup> E	3.3	52.3	-10.3	1.8	86	10°	Cist.		
	6	- 39	- 36	NE <sup>b</sup> E	3.6		-10.2	1.8	89	10	Str.		*
	8	- 39	- 33	NE	2.8	52.3	-10.4	1.8	89	10	Str.		*
	10	- 39	- 30	N <sup>b</sup> E	3.2		-11.7	1.6	93	10°	Cicu.	NE	*
	Mn.	- 39	- 27	N <sup>b</sup> W	1.7	52.6			89	10°	Ci.	N	*
May 14.	2	84 39	88 24	N <sup>b</sup> W	2.7				87	10°	Ci.		
	4	- 39	- 21	NW <sup>b</sup> N	3.2	53.1			85				
	6	- 39	- 18	NNW	4.8				87	10	Cust.		
	8	- 39	- 16	NW	4.0	54.1	-12.9	1.4	88	9	Cu.	NNW	*
	10	- 39	- 16	NW	5.6		-11.5	1.6	88	10	Cust.	NW	
	Noon	- 39	- 16	NW <sup>b</sup> N	3.6	55.8	-11.2	1.6	87	10	Cu.	NW	
	2	- 39	- 16	NW	2.7		-11.6	1.6	86	0			
	4	- 39	- 16	NNW	3.3	57.9	-14.5	1.3	87	0			
	6	- 39	- 15	NW	3.0		-14.4	1.2	81	0			
	8	- 39	- 14	NW <sup>b</sup> W	2.6	59.7	-15.6	1.1	80	0			
	10.15	- 39	- 13	NW <sup>b</sup> W	2.1		-16.9	0.9	79	0			
	Mn.	- 39	- 12	NW <sup>b</sup> W	2.3	61.0			82	0			
May 15.	2	84 39	88 10	NW <sup>b</sup> W	2.2				83	0			
	4	- 38	- 9	NW <sup>b</sup> W	2.8	62.4			87	10	Cist.		
	6	- 38	- 8	N <sup>b</sup> E	2.9				86	10°	Cist.		

<sup>1</sup> Cicu. above N horiz.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 15.	8	84° 38'	88° 7'	N b E	2.4	763.7	-14.5	1.3	88	10	Str.		
	10	- 38	- 6	N b E	3.1		-14.4	1.3	87	10	Str.		
	Noon	- 38	- 5	N b E	2.3	65.3	-14.3	1.2	84	10	Str.		
	2	- 38	- 3	NW	2.4		-13.7	1.3	86	10	Cist.		
	4	- 38	- 2	NW b N	2.4	66.6	-13.8	1.4	87	10	Str.		
	6	- 38	- 1	NW b N	2.5		-14.5	1.3	88	10	Cist.		
	8	- 38	- 0	NW b N	2.0	67.4	-14.2	1.3	84	10°	Cu.		
	10	- 38	87 59	NW b N	2.2		-15.7	1.1	81	0			
	Mn.	- 38	- 57	N b E	2.0	68.4			85	0			
May 16.	2	84 37	87 56	N b W	1.8				84	0			
	4	- 37	- 55	N b W	1.9	68.6			84	0			
	6	- 37	- 54		0				83	0			
	8	- 37	- 53	N b E	2.6	68.4	-17.0	1.0	84	0			
	10	- 37	- 51	NNE	2.3		-16.1	1.1	84	10°	Ci.		
	Noon	- 37	- 49	NE b N	1.8	68.7	-14.6	1.2	82	10°	Ci.		
	2	- 37	- 48	NE b N	2.6		-14.9	1.2	82	7°	Cist.		
	4.15	- 37	- 46	NNE	1.9	68.3	-15.3	1.1	83	4°	Cist.		
	6	- 37	- 44	NE b E	0.0		-15.0	1.1	82	10°	Cist.		
	8	- 37	- 41		0	67.8	-13.9	1.2	80	0			
	10.15	- 37	- 38	E b N	1.2		-15.4	1.0	75	0			
	Mn.	- 37	- 36	NE b E	1.2	67.2			74				
May 17.	2	84 37	87 33	NE b E	0.0				73	0			
	4	- 37	- 31	E b N	0.0	66.6			75	0			
	6	- 37	- 28	E b N	0.0				70	0			
	8	- 37	- 26	E b S	1.4	65.6	-14.5	1.0	71	0			
	10	- 37	- 23	E	2.2		-13.0	1.2	71	0			
	Noon	- 37	- 20	E	3.1	64.8	-12.9	1.2	74	0			
	2	- 37	- 18	E	3.7		-13.0	1.3	76	0			
	4	- 37	- 15	E b N	3.6	64.5	-14.7	1.2	81	0			
	6	- 37	- 12	E	3.6		-14.5	1.2	81	1°	Ci. Cist.		
	8	- 37	- 10	E	3.7	62.1	-15.1	1.1	81	1°	Ci.		
	10	- 37	- 7	E b N	4.2		-16.7	1.0	83	6°	Cicu.	S	
	Mn.	- 37	- 4	E	3.7	60.9			83	9°	Cu.		
May 18.	2	84 37	87 2	ENE	4.6				76	3	Cicu.		
	4	- 37	86 59	ENE	4.2	59.8			75	0			
	6	- 37	- 57	NE	4.2				74	8	Cist.		
	8	- 37	- 54	NE	5.8	58.1	-14.4	1.1	76	3°	Cicu.	ESE	
	10	- 37	- 52	NE b N	5.8		-14.7	1.2	82	4	Ci.	E	
	Noon	- 37	- 49	NE b N	7.1	56.4	-14.1	1.2	83	10	Ci. Cust.	E	
	2	- 37	- 46	NE	7.2		-14.1	1.2	84	10	Ci. Cust.	E	
	4	- 37	- 44	NE	6.3	56.0	-14.0	1.3	86	9°	Cicu.	E	
	6	- 37	- 40	NE	7.0		-14.3	1.3	86	10°	Cicu.		
	8	- 37	- 36	NE b E	6.6	55.8	-14.4	1.2	84	10°	Cist.		
	10	- 37	- 31	NE b N	7.2		-15.3	1.1	81	9°	Cicu.	NE	
	Mn.	- 37	- 27	NE b N	5.8	56.4			80	0			
May 19.	2	84 37	86 22	NE b E	5.4				80	0			
	4	- 36	- 18	NE b E	5.2	57.0			80	7	Cicu.		
	6	- 36	- 13	NE b E	6.6				80	2	Cist.		
	8	- 36	- 9	NE b N	7.0	57.2	-15.0	1.1	81	0			
	10	- 36	- 4	NE	6.3		-14.6	1.2	81	10°	Cist.		
	Noon	- 35	- 0	NE b N	6.7	58.0	-14.2	1.2	85	10°	Str.		
	2	- 35	85 55	NE b N	6.2		-14.5	1.3	85	10	Ci. Cust.		
	4	- 35	- 51	NE b N	5.8	58.3	-14.7	1.2	85	10	Cist.		
	6	- 35	- 46	NNE	4.9		-14.0	1.3	84	10	Ci. Cust.	NNE	
	8	- 35	- 41	N b E	4.6	58.1	-13.9	1.3	88	9	Ci. Cust.	N	
	10	- 34	- 37	N b W	3.1		-13.5	1.4	88	0			
	Mn.	- 34	- 32	N b W	3.2	58.0			86	1°			

<sup>1</sup> 9 p. m. A few ci. <sup>2</sup> A few str. above the northern horizon. <sup>3</sup> Ci. western sky.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 20.	2	84° 34'	85° 28'	NE <sup>b</sup> N	2.6				88	1	Cu.		
	4	- 34	- 23	NE <sup>b</sup> N	2.1	757.3			87	10	Cust.		
	6	- 33	- 19	N <sup>b</sup> W	2.3				86	10	Str.		
	8	- 33	- 18	N	2.4	55.4	-10.9	1.7	86	10	Cust.	N	
	10	- 33	- 15	N	2.2		-10.9	1.6	84	10°	Str.		
	Noon	- 33	- 12	NE <sup>b</sup> N	2.0	54.5	-10.7	1.6	81	10°	Str.		
	2	- 34	- 8	E <sup>b</sup> S	0.0		-10.2	1.5	72	10	Cist.		
	4	- 34	- 5	E <sup>b</sup> S	2.5	53.0	-10.1	1.5	72	10	Cist.		
	6	- 34	- 2	E <sup>b</sup> S	3.6		-11.4	1.5	77	10	Str.		
	8	- 34	84 59	E <sup>b</sup> S	5.2	51.9	-12.5	1.3	77	10	Cust.		
	10.30	- 35	- 55	SE	5.4		-13.6	1.3	84	10	Str.		
	Mn.	- 35	- 52	ESE	6.9	50.6			85	10	Str.		*
May 21.	2	84 35	84 49	ESE	7.0				82	10°	Cist.		
	4	- 36	- 46	ESE	7.0	49.1			84	10°	Str.		
	6	- 36	- 43	E <sup>b</sup> S	9.5				87	10°	Str.		* <sup>2</sup>
	8	- 36	- 39	E	7.5	47.0	-13.4	1.4	87	10	Cist.		* <sup>2</sup>
	10	- 36	- 36	E	9.0		-11.8	1.5	86	10	Cist.		
	Noon	- 37	- 33	E	10.4	45.3	-11.4	1.6	87	10	Cist.		* <sup>2</sup>
	2	- 37	- 30	E <sup>b</sup> S	6.9		- 8.8	2.0	87	10	Cist.		* <sup>2</sup>
	4	- 37	- 26	ESE	7.0	44.4	- 7.4	2.2	86	10	Cist.	SE	
	6	- 37	- 23	SE	6.1		- 7.9	2.1	87	10	Cist.	SE	
	8	- 38	- 20	SE	6.0	44.3	- 7.3	2.5	93	10	Cist.		*
	10	- 38	- 17	SE	4.5		- 6.8	2.5	91	10	Str.		
	Mn.	- 38	- 14	SE <sup>b</sup> S	4.2	45.0			94	10	Str.		
May 22.	2	84 39	84 10	SE <sup>b</sup> S	3.5				94	10	Str.		
	4	- 39	- 7	SE	5.7	46.4			88	8	Cicu.		
	6	- 39	- 4	SE	6.5				87	10	Str.		
	8	- 39	- 1	SE	6.0	47.8	- 6.3	2.4	84	10	Str.		
	10	- 40	83 57	SE	7.5		- 5.3	2.5	83	10	Cist.		<sup>1</sup>
	Noon	- 40	- 54	SE <sup>b</sup> E	6.3	49.2	- 5.3	2.4	81	10	Str.		
	2	- 40	- 51	SE	7.5		- 6.6	2.2	82	9	Ci. Cust.		*
	4	- 40	- 49	ESE	7.0	50.4	- 6.6	2.3	85	10	Cist.		*
	6	- 40	- 46	ESE	8.0		- 6.7	2.5	93	10	Str.		
	8	- 41	- 43	SE <sup>b</sup> E	8.1	51.5	- 5.9	2.5	86	10	Str.		
	10	- 41	- 40	SE <sup>b</sup> E	7.4		- 6.2	2.5	90	10	Str.		
	Mn.	- 41	- 38	ESE	7.2	52.8			92	10	Str.		
May 23.	2	84 41	83 35	SE <sup>b</sup> E	5.5				93	10	Str.		
	4	- 41	- 32	SE <sup>b</sup> E	6.0	54.0			93	10	Str.		
	6	- 41	- 29	SE	6.0				91	10	Str.		
	8	- 41	- 26	SE <sup>b</sup> E	5.6	55.2	- 8.9	2.0	88	10	Str.		*
	10	- 41	- 24	E	7.2		- 8.9	1.9	81	10	Str.		*
	Noon	- 41	- 21	E	5.6	56.6	- 9.5	1.8	84	10	Str.		*
	2	- 42	- 18	ENE	5.1		- 9.9	1.8	83	10	Str.		
	4	- 42	- 15	ENE	4.8	57.5	- 9.4	1.9	86	10	Str.		
	6	- 42	- 13	ENE	5.0		- 9.7	1.9	89	9°	Ci. Cust.	E	
	8	- 42	- 13	ENE	5.8	58.0	-10.2	1.8	87	10	Cist.	E	
	10	- 42	- 13	NE <sup>b</sup> E	4.2		-10.6	1.8	89	9°	Ci. Cust.	E	
	Mn.	- 42	- 13	NE <sup>b</sup> E	4.4	58.4			87		Ci. Cust.	E	
May 24.	2	84 42	83 8	NE <sup>b</sup> E	5.6				83	8	Ci. Cust.		
	4	- 42	- 3	NE <sup>b</sup> E	5.5	58.7			81	9	Ci. Cust.		
	6	- 42	82 58	NE	4.0				75	8°	Ci.		
	8	- 41	- 54	NE <sup>b</sup> N	5.2	59.2	- 9.5	1.7	78	8°	Ci. Cust.		
	10	- 41	- 49	NE <sup>b</sup> N	6.4		-10.3	1.6	75	7°	Cicu.		
	Noon	- 41	- 44	NNE	5.7	59.8	-10.2	1.8	88	10	Cust.		
	2	- 41	- 39	NE <sup>b</sup> N	5.3		- 9.7	1.9	90	10°	Str.		*
	4	- 41	- 35	NE <sup>b</sup> N	5.7	59.4	- 9.9	1.8	83	10	Cust.		*

<sup>1</sup> 10.30 a. m. Cist. SE.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 24.	6	84° 41'	82° 30'	NE <sup>b</sup> E	5.3		- 9.7	1.9	90	10	Str.		
	8	- 41	- 25	NE	4.5	760.5	- 10.8	1.6	92	8	Cu. Cust.		
	10	- 41	- 24	NE <sup>b</sup> N	4.5		- 10.6	1.8	92	3°	Ci.	E	
	Mn.	- 41	- 23	NE <sup>b</sup> N	3.9	60.5			89	9°	Cicu.	E	
May 25.	2	84 41	82 23	NE	4.1				86	10	Str.		
	4	- 41	- 22	NE	3.5	61.0			91	10	Str.		
	6	- 41	- 21	NE <sup>b</sup> N	3.4				90	10°	Cist.		
	8	- 40	- 20	NE	2.6	61.4	- 5.1	2.3	75	10°	Cist.		
	10	- 40	- 20	NE	2.6		- 8.6	2.2	93	10°	Cist.		
	Noon	- 40	- 19	NE	2.4	61.9	- 9.3	2.1	93	10			≡
	2	- 40	- 18	NNE	2.8		- 9.5	2.1	96	10			≡
	4	- 40	- 18	NNE	2.3	62.4	- 8.2	2.3	94	10			≡
	6	- 40	- 17	NNE	2.8		- 7.5	2.4	96	10			≡
	8	- 40	- 16	W <sup>b</sup> N		62.4	- 7.5	2.4	96	10			≡
	10	- 40	- 16	W <sup>b</sup> N	2.4		- 7.4	2.4	95	10			≡
	Mn.	- 39	- 15	NW <sup>b</sup> W	2.9	62.4			92	10	Cust.		
May 26.	2	84 39	82 14	NW <sup>b</sup> W	4.0				91	10	Str.		
	4	- 39	- 14	NW <sup>b</sup> W	3.9	62.0			92	10	Str.		
	6	- 39	- 13	NW <sup>b</sup> N	4.5				88	10	Str.		
	8	- 39	- 12	NW	4.5	61.5	- 6.0	2.5	88	10°	Cist.		
	10	- 39	- 12	NW <sup>b</sup> N	4.5		- 6.1	2.5	87	0			
	Noon	- 39	- 11	NW <sup>b</sup> N	5.0	60.8	- 6.2	2.5	87	2°	Cist.	NW	
	2	- 39	- 10	NW <sup>b</sup> N	5.3		- 6.8	2.4	88	3°	Cicu.	NW	
	4	- 38	- 10	NW <sup>b</sup> N	5.9	60.3	- 7.3	2.3	88	0			
	6	- 38	- 9	NW	4.9		- 7.1	2.2	84	0			
	8	- 38	- 8	NW <sup>b</sup> W	5.8	59.1	- 7.5	2.2	86	0			
	10	- 38	- 8	NW <sup>b</sup> W	5.2		- 8.1	2.1	85	0			
May 27.	Mn.	- 38	- 7	NW <sup>b</sup> N	8.0	58.8			89	9	Str.		
	2	84 38	82 6	NW <sup>b</sup> N	7.4				92	10	Str.		
	4	- 38	- 6	NW	7.9	57.1			85	10	Cust.	NW	
	6	- 38	- 5	WNW	5.5				87	10	Str.		
	8	- 38	- 4	WNW	6.5	55.6	- 6.8	2.5	91	10	Str.		
	10	- 37	- 4	W <sup>b</sup> N	7.0		- 6.6	2.5	89	10	Str.		
	Noon	- 37	- 3	WNW	7.9	54.9	- 6.7	2.4	86	10	Str.		*°
	2	- 37	- 2	W	6.7		- 6.3	2.4	84	10	Str.		*°
	4	- 37	- 2	W	6.5	54.7	- 7.5	2.1	83	4	Cu. Cust.		
	6	- 37	- 1	W	6.1		- 7.6	2.1	84	7	Ci. Cust.	NW	
	8	- 37	- 2	W	3.9	54.7	- 7.8	2.1	83	10	Cust.		
May 28.	10	- 37	- 3	W <sup>b</sup> S	4.3		- 6.8	2.3	86	10	Str.		
	Mn.	- 37	- 4	W <sup>b</sup> S	3.9	54.6			82	10	Str.		
	2	84 36	82 5	W <sup>b</sup> S	2.3				80	10	Str.		
	4	- 36	- 6	W <sup>b</sup> S	2.7	54.7			80	10	Str.		
	6	- 36	- 7	W <sup>b</sup> S	2.6				78	10	Str.		
	8	- 36	- 7	SW <sup>b</sup> W	2.6	54.5	- 5.6	2.3	76	10	Str.		
	10	- 36	- 8	WSW	2.8		- 5.2	2.3	75	10	Str.		
	Noon	- 36	- 9	W <sup>b</sup> S	2.3	55.0	- 5.5	2.3	76	10	Str.		
	2	- 36	- 10	W	1.7		- 5.5	2.5	82	10	Str.		*°
	4	- 35	- 11	W	2.0	55.1	- 5.0	2.3	73	10	Str.		
	6	- 35	- 12		0		- 4.8	2.3	71	10	Str.		
May 29.	8	- 35	- 13	NE <sup>b</sup> N	0.0	55.2	- 4.2	2.2	66	10	Str.		
	10	- 35	- 14	S <sup>b</sup> W	0.0		- 4.2	2.3	71	10	Str.		*°
	Mn.	- 35	- 14	S <sup>b</sup> W	0.0	55.1			63	10	Str.		
	2	84 35	82 15	WSW	0.0				68	10	Str.		
	4	- 35	- 16	W	2.2	55.2			77	10	Str.		
	6	- 34	- 17	W	2.4				78	10	Str.		
	8	- 34	- 18	NW <sup>b</sup> N	3.0	54.9	- 4.9	2.8	88	10	Str.		*°
	10	- 34	- 19	NW <sup>b</sup> N	1.9		- 4.8	2.5	79	10	Str.		*°
	Noon	- 34	- 20	W	2.8	55.0	- 5.1	2.6	83	10	Str.		*°



1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 29.	2	84° 34'	82° 20'	SW b W	2.6		-4.2	2.7	82	10	Str.		*°
	4	- 34	- 21	W b N	5.0	754.9	-4.8	2.6	83	10	Str.		*°
	6	- 34	- 22	W	5.6		-4.8	2.4	77	10	Str.		
	8	- 34	- 23	W b N	4.9	54.7	-5.4	2.6	84	10	Cu. Cust.		
	10	- 34	- 23	WSW	4.4		-5.2	2.2	72	10	Cust.	WSW	
	Mn.	- 34	- 23	SW b W	5.2	54.7	-5.0	2.7	87	10	Str.		
May 30.	2	84 34	82 26	WSW	4.3				88	10	Str.		
	4	- 34	- 29	WSW	5.0	53.8			83	10°	Str.		
	6	- 34	- 33	WSW	5.2				83	10	Str.		
	8	- 34	- 37	SW b W	5.8	53.7	-4.8	2.6	82	10	Str.		
	10	- 34	- 41	SW b W	5.4		-4.5	2.8	86	10	Ci. Cust.		
	Noon	- 34	- 44	SW b W	4.8	53.6	-4.5	2.6	81	10	Ci. Cust.		
	2	- 34	- 48	SW b W	6.3		-5.0	2.4	77	10	Str.		*°
	4.15	- 34	- 52	SW b W	6.1	53.6	-5.2	2.5	82	10	Str.		
	6	- 34	- 55	SW	5.8		-5.9	2.2	77	10	Str.		
	8	- 34	- 59	SW	4.3	53.8	-6.3	2.3	82	10	Str.		
	10	- 35	83 3	S b E	5.0		-5.8	2.6	90	10	Str.		*°
	Mn.	- 35	- 6	SW	4.5	52.4			87	10	Str.		*°
May 31.	2	84 35	83 10	SW b S	6.8	52.3			90	10	Str.		
	4	- 35	- 13	SW b S	6.4	52.3			73	10	Str.		
	6	- 35	- 17	SSW	7.2				85	10	Str.		
	8	- 35	- 21	SSW	7.0	52.5	-4.4	2.4	76	10	Cust.	SSW	
	10	- 35	- 24	SW b S	6.3		-4.0	2.4	74	10	Cu. Cust.		
	Noon	- 36	- 28	SSW	5.4		-4.9	2.8	89	10	Cu. Cust.		
	2	- 36	- 32	S b W	6.4		-4.1	2.8	83	10	Str.		
	4	- 36	- 35	S b W	8.4	53.6	-4.2	2.7	82	10	Str.		
	6	- 36	- 39	SSW	6.9		-3.5	2.6	74	10	Ci. Cust.	S SSW	
	8	- 36	- 42	SSW	6.2	53.9	-5.2	2.5	81	10°	Cu. Cust.		
	10	- 37	- 44	S b W	5.8		-5.6	2.5	83	10	Str.		*°
	Mn.	- 37	- 47	S	5.7	53.7			87	10	Str.		
June 1.	2	84 37	83 49	S	6.0				92	10	Str.		*°
	4	- 37	- 51	S b W	5.7	53.0			92	10	Str.		*°
	6	- 38	- 54	SW	5.4				82	10	Str.		
	8	- 38	- 56	SW	4.1	53.6	-4.0	2.8	82	10	Ci. Cist.		*°
	10	- 38	- 57	SW	4.3		-4.2	2.7	82	10	Cicu.		*°
	Noon	- 38	- 59	SW b S	5.8	54.1	-4.4	2.7	81	3°	Ci.		
	2	- 38	84 0	SW	4.6		-4.6	2.6	82	10°	Cist.	SW	*°
	4	- 38	- 1	W b S	5.4	54.5	-4.3	2.8	83	10	Cu. Cust.		
	6	- 38	- 2	W b N	2.6		-4.8	2.7	77	10	Cu. Cust.		
	8	- 38	- 3	NW b W	3.1	55.0	-5.2	2.5	83	10	Str.		*°
	10	- 38	- 3	WNW	4.0		-6.8	2.4	90	10°	Cist.		*°
	Mn.	- 38	- 4	WNW	5.2	56.3			93	10°	Str.		
June 2.	2	84 37	84 5	WNW	5.8				90	10	Str.		
	4	- 37	- 6	WNW	5.3	57.5			92	10°	Cist.		
	6	- 37	- 6	WNW	6.0				86	10°	Cist.		
	8	- 37	- 7	WNW	6.3	58.0	-4.0	2.9	85	10	Str.		*°
	10	- 37	- 8	W b N	6.5		-3.8	3.0	89	10	Str.		*°
	Noon	- 37	- 9	W b N	6.7	57.7	-3.4	3.1	88	10	Cust.		
	2	- 37	- 10	WNW	6.6		-4.2	3.0	92	10	Cu. Cust.	WNW	
	4	- 37	- 10	W b N	5.3	57.7	-2.6	3.2	86	10	Cust.		
	6	- 36	- 11	W b N	7.4		-4.0	2.9	88	10	Str.		*°
	8	- 36	- 12	W b S	4.4	57.0	-4.7	2.7	87	10	Str.		*°
	10	- 36	- 13	SW b W	4.6		-3.7	2.9	88	10	Str.		*°
	Mn.	- 36	- 14	W b S	4.8	55.9			88	10	Str.		

<sup>1</sup> Blue sky in WNW and S. <sup>2</sup> Blue sky in S.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 3.	2	84° 36'	84° 14'	SW	4.7				89	10	Str.		*
	4	- 36	- 15	WNW	4.4	755.0			92	8	Cust.		*
	6	- 36	- 16	WNW	2.7				81	10	Str.		
	8	- 36	- 17	W <sup>b</sup> N	3.2	54.9	-2.5	3.4	90	10°	Cust.	WNW	<sup>1</sup>
	10	- 35	- 17	W	2.6		-1.8	3.8	95	10	Str.		≡ <sup>°</sup> m
	Noon	- 35	- 18	WSW	4.6	54.5	-1.9	3.7	92	10	Str.		
	2	- 35	- 19	SW <sup>b</sup> W	2.6		-0.7	3.6	83	10	Str.		
	4	- 35	- 20	SW <sup>b</sup> W	1.9	54.1	-0.3	3.6	79	10	Cust.	W	
	6	- 35	- 21	W	1.7		-0.8	3.7	84	10°	Cicu.	NNW	m
	8	- 35	- 21	NNE	4.0	54.5	-3.8	2.9	84	10°	Ci. Cist.	N	
	10	- 35	- 22	NNE	4.4		-5.6	2.8	92	10	Str.		
	Mn.	- 35	- 23	N <sup>b</sup> E	3.4	55.7			95	10	Str.		
June 4.	2	84 35	84 24	NNW	3.8				94	5	Cist.		
	4	- 34	- 25	NNW	4.2	56.9			92	0			
	6	- 34	- 25	NW <sup>b</sup> N	3.6				93	10°	Cist.		<sup>2</sup>
	8	- 34	- 26	NW <sup>b</sup> N	4.0	58.3	-7.6	2.2	90	2	Cicu.	NW	1
	10	- 34	- 26	NNW	4.4		-6.6	2.4	88	2	Cicu.	NNW	
	Noon	- 34	- 26	NW <sup>b</sup> N	4.1	59.7	-6.3	2.4	87	10	Ci. Cust.	NW	
	2	- 34	- 26	NW	3.6		-6.3	2.5	89	10	Ci. Cust.	NW	<sup>2</sup>
	4	- 34	- 26	NW <sup>b</sup> W	3.8	60.9	-6.8	2.4	90	4	Ci. Cust.	NW	
	6	- 34	- 27	W	3.2		-6.0	2.4	83	1	Ci. Cust.	NW	
	8	- 34	- 27	W	3.1	61.0	-6.9	2.2	84	10	Ci. Cust.	NNW	
	10	- 34	- 27	W <sup>b</sup> S	3.4		-6.9	2.2	83	10	Ci.		
	Mn.	- 34	- 27	W <sup>b</sup> S	4.0	60.2			85	0			<sup>3</sup>
June 5.	2	84 34	84 27	W <sup>b</sup> S	4.5				85		Ci. Cust.		<sup>4</sup>
	4	- 34	- 27	SW	3.9	58.6			85	10	Cist.		
	6	- 34	- 27	SW	5.0				82	10	Str.		
	8	- 34	- 27	SW <sup>b</sup> S	5.8	56.3	-3.9	2.8	83	10	Str.		*
	10	- 34	- 27	SW <sup>b</sup> S	6.2		-3.3	3.0	84	10	Str.		*
	Noon	- 34	- 28	SW <sup>b</sup> S	5.2	53.4	-2.2	3.4	87	10	Str.		*
	2	- 34	- 28	SW <sup>b</sup> S	3.9		-1.9	3.5	88	10	Cust.		
	4	- 34	- 28	WNW	3.3	52.1	-1.5	3.6	88	10	Cist.		
	6	- 34	- 28	NNW	3.1		-1.4	3.6	87	10°	Cist.	NNW	<sup>5</sup>
	8	- 34	- 28	N	3.8	52.8	-2.5	3.3	86	10	Str.		<sup>6</sup>
	10	- 34	- 28	NW <sup>b</sup> N	2.6		-2.5	3.2	83	10	Str.		<sup>7</sup>
	Mn.	- 33	- 28	N	2.0	52.9			92	10	Str.		<sup>8</sup>
June 6.	2	84 33	84 28	N	2.2				94	10	Str.		* <sup>°</sup>
	4	- 33	- 28	NE	1.6	52.4			82	10	Str.		
	6	- 33	- 29		0				84	10	Str.		
	8	- 33	- 29	SE <sup>b</sup> E	4.3	50.6	-2.9	3.2	85	10	Str.		
	10	- 33	- 29	ESE	5.6		-3.2	3.3	92	10	Str.		
	Noon	- 33	- 29	E <sup>b</sup> S	5.3	47.5	-2.9	3.4	92	10	Str.		*
	2	- 33	- 29	E	6.7		-3.1	3.4	93	10	Str.		*
	4	- 33	- 29	E	6.5	47.0	-4.0	3.1	91	10	Str.		*
	6	- 33	- 29	NE <sup>b</sup> E	6.7		-4.6	2.9	90	10	Str.		
	8	- 33	- 29	NE <sup>b</sup> N	6.3	49.3	-6.3	2.4	86	0			
	10	- 33	- 29	NNE	3.6		-6.0	2.4	81	0			
	Mn.	- 33	- 30	N <sup>b</sup> E	3.2	51.0			90	0			
June 7.	2	84 33	84 30	NW <sup>b</sup> N	2.3				88	0			
	4	- 33	- 30	NW	3.3	52.3			88	1	Cust.		
	6	- 33	- 30	NW	4.2				88	0			
	8	- 33	- 30	N <sup>b</sup> W	7.0	52.9	-5.4	2.6	86	10	Ci. Cust.	N	
	10	- 33	- 30	NNW	4.6		-4.7	2.9	90	10	Cust.		
	Noon	- 33	- 30	NW	3.3	54.0	-4.5	2.8	85	0			

<sup>1</sup> A good deal of blue sky in NNW. <sup>2</sup> Fog-bow opposite the sun. <sup>3</sup> Blue sky in NNW. <sup>4</sup> Blue sky in ENE. <sup>5</sup> Faint blue sky round the horiz. <sup>6</sup> Continuous blue sky from SSE to NNW. <sup>7</sup> Faint blue sky round the horiz., except in SSW to W. <sup>8</sup> Blue sky in E to N.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 7.	2	84° 33'	84° 30'	NW <sup>b</sup> W	4.0					1°	Cicu.	NW	
	4	- 33	- 30	N	1.4	756.0	-4.9	2.7	85	0			
	6	- 33	- 30	NNE	1.6		-4.3	2.9	88	0			
	8	- 33	- 30	NE	1.3	56.8	-4.2	2.9	86	0			
	10	- 33	- 30	E	1.5		-4.5	2.5	78	0			
	Mn.	- 33	- 30	SSE	0.0	57.5	-6.6	2.2	79	0			
June 8.	2	84 33	84 30	SE <sup>b</sup> S	2.0				87	0			
	4	- 33	- 30	SSE	2.2	58.0			85	0			
	6	- 33	- 30	SSE	3.5				81	0			
	8	- 33	- 30	SSE	3.8	58.3	-7.7	2.0	82	0			
	10	- 33	- 31	SE <sup>b</sup> S	3.8		-7.1	2.1	81	0			
	Noon	- 33	- 31	SE <sup>b</sup> S	4.8	58.6	-6.7	2.1	79	0			
	2	- 33	- 31	SE	5.2		-6.3	2.2	80	0			
	4	- 33	- 31	SE <sup>b</sup> E	4.7	58.7	-7.1	2.2	85	1	Ci.		
	6	- 33	- 31	SE	6.1		-8.0	2.1	86	10°	Ci.		
	8	- 34	- 23	SE	5.0	58.2	-9.2	2.0	89	10°	Ci.		
	10	- 34	- 25	SE	6.4		-9.0	2.0	91	10°	Ci.		
	Mn.	- 34	- 22	SE	7.6	57.7			86	10°	Cist.		
	2	84 35	84 20	SE	7.0				88	10°	Cist.		
	4	- 35	- 17	SE	8.0	57.6			86	7°	Ci. Cist.		
June 9.	6	- 36	- 14	SE	8.5				86	10	Cist.		
	8	- 36	- 11	SE	9.3	56.8	-7.3	2.2	86	10°	Str.		
	10	- 36	- 9	SE <sup>b</sup> E	9.7		-6.9	2.4	86	10°	Str.		
	Noon	- 37	- 6	SE <sup>b</sup> E	10.7	56.3	-6.3	2.4	87	10	Str.		* <sup>2</sup>
	2	- 37	- 3	SE <sup>b</sup> E	10.4		-6.3	2.4	87	10	Str.		* <sup>2</sup>
	4	- 37	- 0	SE <sup>b</sup> E	8.9	55.6	-5.9	2.6	90	10	Str.		* <sup>2</sup>
	6	- 38	83 57	SE <sup>b</sup> E	9.3		-5.5	2.7	91	10	Str.		* <sup>2</sup>
	8	- 38	- 55	SE	9.6	55.1	-5.4	2.7	90	10	Str.		* <sup>2</sup>
	10	- 38	- 52	SE	11.6		-4.8	2.9	91	10	Str.		* <sup>2</sup>
	Mn.	- 39	- 49	SE	10.0	54.8			96	10	Str.		* <sup>2</sup>
	2	84 39	83 46	SE	10.5				92	10	Str.		
	4	- 40	- 44	SE	8.8	55.2			95	10	Str.		
	6	- 40	- 41	SE	9.4				94	10	Str.		
	8	- 40	- 38	SE <sup>b</sup> E	8.8	55.4	-2.4	3.5	93	10	Str.		
June 10.	10	- 41	- 35	SE	8.2		-2.2	3.6	92	10	Str.		
	Noon	- 41	- 32	SE	6.9	55.9	-1.3	3.9	94	10	Str.		☉ <sup>d</sup>
	2	- 41	- 30	SE	7.0		-1.0	3.9	92	10	Str.		* <sup>o</sup>
	4	- 42	- 27	SE	8.2	56.7	-0.5	4.0	90	10	Str.		
	6	- 42	- 24	SE <sup>b</sup> S	6.6		-0.6	4.1	92	10	Str.		
	8	- 43	- 21	SE	6.3	56.9	-0.5	4.1	92	10	Str.		
	10	- 43	- 18	SE	4.4		-0.1	4.2	92	10	Str.		
	Mn.	- 43	- 16	SE	4.0	57.1			89	10	Cust.	WSW SSW	
	2	84 44	83 13	SE <sup>b</sup> E	3.4				91	10°	Cist.		
	4	- 44	- 10	SE <sup>b</sup> E	2.7	57.4			89	9	Cist.		
	6	- 44	- 7	SE	5.3				90	10°	Str.		
	8	- 45	- 5	SE	4.0	57.7	-0.3	4.0	89	10°	Cist.		
	10	- 45	- 5	SE	6.0		0.2	4.1	89	10°	Cust.	S	
	Noon	- 45	- 5	SE	5.7	57.9	0.2	4.6	94	10°	Str.		
June 11.	2	- 45	- 4	SSE	4.7		0.0	4.2	91	10°	Str.		
	4	- 45	- 3	SSE	6.0	59.2	0.2	4.2	90	10°	Str.		
	6	- 45	- 1	SSE	6.1		0.7	4.4	90	10°	Str.		
	8	- 45	82 59	SSE	6.0	59.4	0.6	4.5	94	10	Cust.		*
	10	- 45	- 59	SSE	6.7		0.2	4.1	93	10	Str.		
	Mn.	- 46	- 58	SE <sup>b</sup> S	6.0	59.6	0.3	4.3	92	10°	Str.		

<sup>1</sup> 6, 8, 10 p. m. Cirrus-belts converging towards SE and NW. <sup>2</sup> Continuous blue sky from ENE through E to SSW near the horiz. Scattered patches of blue sky on the rest of the sky. <sup>3</sup> Continuous blue sky from SW through S to NNW. <sup>4</sup> Blue sky continuous N to WNW, a few patches in SSE to WSW. <sup>5</sup> Continuous blue sky from SE to SW. <sup>6</sup> Blue sky with short interruptions all round the horiz. from ESE round SW to WNW.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 12.	2	84°46'	82°57'	SE <sup>b</sup> E	6·5				90		Str.		1
	4	- 47	- 57	SE	4·8	759·6			90	10	Str.		
	6	- 47	- 56	SE	4·8				88	10°	Str.		
	8	- 47	- 55	E <sup>b</sup> S	5·6	59·7	-3·7	3·0	90	10	Ci. Cust.		*
	10	- 48	- 55	E <sup>b</sup> S	7·0		-2·9	3·3	89	10	Cust.		
	Noon	- 48	- 54	SE	7·0	59·2	-3·8	2·6	77	10	Cust.	SE	
	2	- 48	- 47	SE <sup>b</sup> E	5·5		-3·3	2·5	70	10°	Ci. Cist.	SSE	
	4	- 48	- 38	E <sup>b</sup> S	5·9	58·5	-3·7	2·6	76	10	Cust.	SE	
	6	- 48	- 43	E <sup>b</sup> S	5·6		-3·8	2·6	76	10°	Str.		
	8	- 48	- 51	E <sup>b</sup> S	5·4	58·7	-4·2	2·8	84	6°	Cicu.	SE	
	10	- 48	- 46	ESE	5·1		-4·1	3·0	88	10	Cu.	SE	2
	Mn.	- 49	- 40	E	4·6	58·6			89	6	Ci.	SE	
June 13.	2	84 49	82 35	E	4·6				90	0			
	4	- 50	- 30	E	4·8	58·0			86	0			
	6	- 50	- 25	E	6·1				81	0			
	8	- 51	- 20	E <sup>b</sup> S	6·3	57·6	-3·8	2·6	76	0			
	10	- 51	- 15	E <sup>b</sup> S	6·0		-3·4	2·7	76	3°	Cicu.	SSE	
	Noon	- 52	- 9	ESE	7·0	56·8	-3·1	2·8	77	5°	Ci.	SSE	
	2	- 52	- 4	E	7·2		-2·0	2·9	75	6°	Ci. Cist.	S	
	4	- 52	81 59	E	7·6	56·0	-3·0	3·0	82	8°	Cicu.	SSE	
	6	- 52	- 54	E <sup>b</sup> N	7·4		-3·1	3·3	92	6°	Ci. Cist.		
	8	- 52	- 50	E <sup>b</sup> N	7·5	55·1	-3·4	3·0	86	9	Ci. Cust.	SE	
	10	- 52	- 45	E	7·8		-3·1	3·1	85	10	Str.		3
June 14.	Mn.	- 52	- 41	E	8·2	53·6			87	10	Str.		4
	2	84 52	81 36	E	7·4				90	10	Str.		*°
	4	- 52	- 31	ENE	7·8	52·7			94	10	Str. Sn.sky		*°
	6	- 52	- 26	E	8·7				91	10	Str.		*
	8	- 52	- 22	E	8·6	52·5	-2·1	3·7	94	10	Str.		⊙*
	10	- 52	- 17	E	7·7		-1·0	3·9	92	10	Str.		⊙* <sup>5</sup>
	Noon	- 52	- 12	E	7·2	53·0	-0·6	4·1	94	10	Str.		
	2	- 52	- 8	E	6·1		-0·4	4·1	93	10°	Str.		
	4	- 52	- 3	E <sup>b</sup> N	6·7	53·6	-0·3	4·2	94	10°	Str.		
	6	- 52	80 58	E <sup>b</sup> N	6·0		-0·4	4·2	94	10°	Str.		⊙*
	8	- 52	- 54	E <sup>b</sup> N	6·6	54·6	-0·5	4·2	94	10°	Str.		
June 15.	10	- 52	- 49	E <sup>b</sup> N	6·1		-0·8	4·2	96	10	Str.		6
	Mn.	- 52	- 44	E <sup>b</sup> N	4·8	55·8			91	10	Str.		
	2	84 52	80 40	ENE	4·2				93	10	Str.		
	4	- 52	- 35	NE <sup>b</sup> E	5·8	57·0			92	10	Str.		
	6	- 52	- 30	NE	4·0				93	10	Str.		
	8	- 52	- 26	NNE	4·8	58·6	0·1	4·4	97	10	Str.		
	10	- 52	- 21	NNE	3·7		0·5	4·3	97	10	Str.		
	Noon	- 52	- 16	NNE	5·1	59·5	0·6	4·2	97	10	Str.		
	2	- 52	- 12	NNE	5·6		0·8	4·2	96	10	Str.		
	4	- 52	- 7	NNE	4·6	61·1	0·2	4·4	97	10	Str.		≡⊙ d
	6	- 52	- 2	NNE	4·4		0·2	4·3	95	10	Str.		
June 16.	8	- 52	79 58	NNE	2·4	62·6	0·2	4·4	97	10	Str.		
	10	- 52	- 53	NNE	2·6		0·2	4·4	97	10	Cust.	NNE	≡
	Mn.	- 52	- 48	NNE	1·5	62·6			95	10°	Cist.	NNE	
	2	84 52	79 44	NNW	2·3				95	9	Cust.	NNE	7
	4	- 52	- 39	NNW	2·3	62·5			94	1°	Ci.	NNE	
	6	- 52	- 34	NNW	2·5				96	10			≡
	8	- 52	- 30	NW <sup>b</sup> W	4·3	62·4	-0·3	4·2	95	10°	Cist.		⊙° d <sup>8</sup>
	10	- 52	- 30	NW	2·6		-0·7	3·9	88	10	Str.		*
	Noon	- 51	- 29	NW	2·6	62·5	-2·1	3·4	88	10	Cust.	N	*

<sup>1</sup> Blue patches here and there round the horiz. <sup>2</sup> Blue sky on the horiz. from SW to SE. <sup>3</sup> Blue sky from SW to SE. <sup>4</sup> Blue sky in SW and WNW. <sup>5</sup> Drizzling rain. <sup>6</sup> Some blue sky between E and S. Blue sky SE to WSW. <sup>7</sup> Fog-bow opposite the sun. <sup>8</sup> Luminous fog-bow on the horiz. opposite the sun.



1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 21.	2	84°32'	80° 26'	WSW	6.6				96	10	Str.		☉°d
	4	- 32	- 27	WSW	6.0	751.8			94	10	Str.		
	6	- 32	- 28	W	4.2				94	10	Str.		
	8	- 32	- 29	W b S	3.3	50.2	0.4	4.5	95	10	Str.		☉*
	10	- 32	- 31	NW	2.0		0.6	4.5	94	10	Str.		☉*
	Noon	- 32	- 32	NNW	1.5	49.2	1.0	4.5	90	10	Str.		
	2	- 32	- 33	NE	2.2		0.7	4.4	89	10	Str.		☉°d
	4	- 32	- 34	NE	2.4	48.9	1.1	4.1	83	10	Cust.		
	6	- 32	- 35	NNE	3.4		-0.4	3.8	86	10	Str.		
	8	- 32	- 36	NNE	3.5	48.6	-0.6	4.0	90	10	Str.		*°
	10	- 32	- 37	NNE	6.6		-1.6	3.7	92	10	Ci. Cust.	NNE	*°
	Mn.	- 32	- 39	NNE	6.5	49.2			87	10	Str.		
June 22.	2	84 32	80 40	NE	5.5				91	10	Str.		
	4	- 32	- 41	N b E	5.2	49.6			88	10	Str.		
	6	- 32	- 42	NNE	3.8				89	0			
	8	- 32	- 42	N b E	4.4	49.6	-1.4	3.5	85	10°	Cicu.	NNE	
	10	- 32	- 39	NNE	2.5		0.0	3.7	80	5°	Ci.	NNE	
	Noon	- 32	- 35	N b E	4.5	50.2	0.0	4.0	88	5°	Cicu.	NNE	
	2	- 32	- 32	N	3.4		0.3	4.1	93	10°	Cist.	N	
	4	- 32	- 29	N b E	6.0	50.9	-0.5	3.9	88	10°	Cist.	N	
	6	- 32	- 26	N b E	4.0		-1.0	3.8	89	10°	Cist.	N	
	8	- 32	- 26	N	3.5	51.3	-0.8	3.7	86	10°	Cist.	N	
	10	- 31	- 26	NNW	3.8		-1.6	3.9	96	5°	Cicu.	N	
	Mn.	- 31	- 25	WNW	3.4	50.8			93	10	Str.		
June 23.	2	84 31	80 25	W b N	6.0				94	10	Str.		☉*
	4	- 31	- 25	NW	3.4	49.8			89	8	Cust.	NW	
	6	- 31	- 25	NW	3.6				91	10	Cust.	NW	
	8	- 31	- 25	NW b N	3.4	49.4	-0.4	4.2	93	10	Str.		*° 1
	10	- 31	- 25	NNW	2.9		0.3	4.2	91	10	Str.		☉°
	Noon	- 31	- 25	N b E	4.8	49.5	-0.5	3.8	86	10	Cicu.	NNW	
	2	- 31	- 24	N	4.6		-0.9	3.6	85	9	Ci. Cust.	N	
	4	- 30	- 24	N b W	5.2	50.3	-2.4	3.3	85	1°	Ci. Cicu.	NNW	2
	6	- 30	- 24	N	3.6		-2.2	3.1	80	10	Str.		3
	8	- 30	- 24	NW b N	3.8	50.2	-2.6	3.2	85	10°	Ci. Cicu.	WNW	*°
	10	- 30	- 24	WNW	3.4		-2.6	3.3	87	10	Ci. Cust.	WNW	*°
	Mn.	- 30	- 24	SW b W	3.5	49.5			94	10	Str.		*°
June 24.	2	84 30	80 23	SW b W	3.5				95	10	Str.		*°
	4	- 30	- 23	SSW	4.1	49.4			93	10	Str.		*°
	6	- 30	- 23	SSW	3.7				87	10	Str.	WSW	*°
	8	- 30	- 23	S	3.5	49.6	-2.0	3.5	91	10	Cicu.	S	*°
	10	- 30	- 23	S	3.4		-1.8	3.7	93	10	Cust.	S	
	Noon	- 30	- 23	S b E	2.6	50.2	-1.7	3.6	91	10	Cust.	SSE	
	2	- 30	- 20	ESE	3.2		-1.7	3.6	89	10	Cicu.	SE	*°
	4	- 30	- 16	ESE	1.8	51.4	-1.4	3.6	86	10	Cust.	SE	
	6	- 30	- 12	E b N	2.2		-1.4	3.6	87	10	Str.		*°
	8	- 30	- 8	ENE	3.8	52.4	-1.8	3.6	90	10	Str.		*°
	10	- 30	- 4	NE	3.1		-2.3	3.5	89	9	Cicu.		*°
	Mn.	- 30	- 1	NE b N	2.2	52.5			90	9	Cicu.		*°
June 25.	2	84 30	79 57	NE	3.1				95	10°	Cist.		
	4	- 31	- 53	E	3.4	53.3			89	10	Str.		
	8	- 31	- 45	E	3.6	53.6	-2.0	3.4	87	10	Cist.		*°
	10	- 31	- 41	ENE	4.7		-1.1	3.8	90	10	Cust.		*°
	Noon	- 31	- 37	ENE	6.7	53.6	0.1	4.2	91	10	Cist.		*°
	2	- 31	- 34	E b N	4.2		0.2	4.1	89	10	Str.		
	4	- 31	- 30	E	3.4	54.2	0.0	4.1	89	10	Str.		
	6	- 32	- 26	E	3.7		-0.2	4.1	91	10	Str.		

<sup>1</sup> A little blue sky N to W. <sup>2</sup> Cirrus-belts converging towards SW and NE. <sup>3</sup> Blue sky NE to WSW.

1895. Day.	H l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 25.	8	84° 32'	79° 22'	E	4.0	755.4	-0.5	3.8	86	10°	Str.	ESE	1
	10.15	- 32	- 18	E b N	3.7		-0.8	3.8	88	10	Cust.		
	Mn.	- 32	- 14	E b N	6.0	55.7			89	10	Cust.		
June 26.	2	84 32	79 10	ENE	3.5				89	10	Cist.	NE	2
	4	- 32	- 7	ENE	4.4	56.1			90	10	Str.		
	6	- 32	- 3	NE	5.4				90	10	Str.		
	8	- 32	78 59	ENE	5.9	56.1	-0.6	4.0	90	10	Cist.		
	10	- 33	- 55	NE	5.9		0.2	4.3	93	10	Str.		
	Noon	- 33	- 51	NE	5.5	55.4	0.5	4.5	93	10	Str.		
	2	- 33	- 47	NE	5.8		0.5	4.6	94	10	Str.		
	4	- 33	- 43	NE b E	7.5	54.9	0.6	4.5	94	10	Str.		
	6	- 33	- 40	ENE	8.7		0.7	4.5	93	10	Cist.		
	8	- 33	- 36	ENE	8.0	55.0	1.3	4.3	86	10	Str.		
	10	- 33	- 32	NE b E	8.3		0.0	4.3	95	10	Str.		
	Mn.	- 33	- 28	ENE	9.1	55.1			95	10	Str.		
June 27.	2	84 34	78 24	NE b E	10.9				90	10°	Ci.	NE	5
	4	- 34	- 20	NE	8.0	54.6			87	10°	Cist.		
	6	- 34	- 16	NE	8.7				85	9	Cicu. Str.		
	8	- 34	- 12	NE b N	8.6	53.8	-0.5	3.8	87	10	Cust.		
	10	- 34	- 8	NE b N	10.0		-0.3	4.1	92	10	Str.		
	Noon	- 34	- 8	NE b N	10.6	53.2	-0.4	4.2	94	10	Str.		
	2	- 34	- 6	NE b N	9.5		-0.8	4.0	92	10	Cust.		
	4	- 34	- 0	NE b N	9.5	53.2	-0.6	4.0	90	10	Str.		
	6	- 34	77 54	NNE	8.5		0.0	4.3	92	10	Str.		
	8	- 34	- 47	NNE	9.5	52.8	-0.4	4.1	93	10	Str.		
	10	- 34	- 41	NNE	9.2		-0.3	4.3	96	10	Str.		
	Mn.	- 34	- 35	NNE	10.8	52.0			94	10	Str.		
June 28.	2	84 33	77 29	NNE	9.2				96	10	Str.	NE	6
	4	- 33	- 23	NNE	8.0	50.8			94	10	Str.		
	6	- 33	- 17	NNE	9.7				94	10	Str.		
	8	- 33	- 11	N b E	9.0	49.7	0.2	4.6	98	10	Str.		
	10	- 33	- 4	NNE	8.0		0.5	4.5	95	10	Str.		
	Noon	- 33	76 58	N b E	9.1	48.8	0.4	4.5	97	10	Str.		
	2	- 33	- 52	N b E	7.8		0.6	4.5	95	10	Str.		
	4	- 33	- 46	NNE	7.6	48.5	0.6	4.5	94	10	Str.		
	6	- 33	- 40	N b E	7.6		0.2	4.6	98	10	Str.		
	8	- 33	- 34	N b E	8.3	48.3	0.3	4.5	97	10	Str.		
	10	- 33	- 28	N b E	7.4		0.3	4.5	97	10	Str.		
	Mn.	- 33	- 22	N b E	6.9	47.8			94	10	Str.		
June 29.	2	84 32	76 15	NNE	6.2				95	10	Str.	NE	7
	4	- 32	- 9	NE b N	5.1	48.0			91	10°	Ci.		
	6	- 32	- 3	NE	6.0				91	10	Str.		
	8	- 32	75 57	E b N	7.8	48.9	0.3	4.4	94	10	Ci. Cust.		
	10	- 32	- 51	E b N	7.2		0.3	4.2	90	10	Cist.		
	Noon	- 32	- 45	E b N	9.1	49.9	-0.3	4.2	94	10	Cist.		
	2	- 32	- 39	E b N	9.5		0.0	4.4	96	10	Str.		
	4	- 32	- 34	E b S	10.4	50.3	0.0	4.3	93	10	Str.		
	6	- 32	- 28	ESE	11.0		0.2	4.4	95	10	Str.		

<sup>1</sup> Bright blue sky from W to NNW. <sup>2</sup> Bright blue sky round the horiz. especially from NNW over NW to SSE. <sup>3</sup> Blue sky in SSE round SW to NNW. <sup>4</sup> The reading not trustworthy, as the screen, on account of the melting of the snow and the rather high wind, had fallen forward and occasioned disorder among the instruments. <sup>5</sup> Blue sky with short interruptions all round the horiz., most in NNE and WNW. <sup>6</sup> Blue sky from NNE to ESE. <sup>7</sup> Blue sky in WNW and NNW and single patches in SSW and W. Blue sky in S. <sup>8</sup> The sun-screen was blown down against the screen, with the result that the psychrometer fell down, the max. therm. was disturbed, and a few other minor disturbances were occasioned. Hung it up again.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 29.	8	84° 32'	75° 22'	ESE	9.7	750.8	0.0	4.5	98	10	Str.		☉ * <sup>1</sup>
	10	- 32	- 15	ESE	9.9			4.6	98	10	Cust.		☉ *
	Mn.	- 32	- 12	ESE	9.6	52.3	0.4		95	10	Cust.		* <sup>o</sup>
June 30.	2	84 33	75 10	SE <sup>b</sup> E	11.0				97	10	Str.		☉ *
	4	- 33	- 7	SE <sup>b</sup> E	11.5	53.8			95	10	Str.		☉ * <sup>2</sup>
	6	- 34	- 5	SE	10.0				97	10	Str.		<sup>3</sup>
	8	- 34	- 2	SE	8.5	55.1	0.6	4.6	96	10	Str.		
	10	- 34	74 59	SE <sup>b</sup> E	5.5		0.8	4.7	97	10	Str.		
	Noon	- 35	- 57	ESE	5.8	56.7	0.9	4.7	96	10	Str.		
	2	- 35	- 54	E <sup>b</sup> S	5.7		0.7	4.7	98	10	Str.		≡
	4	- 35	- 52	E <sup>b</sup> S	5.0	57.1	0.6	4.8	99	10			≡
	6	- 36	- 49	NE	5.0		0.7	4.7	98	10	Cust.	E	
	8	- 36	- 47	E <sup>b</sup> N	6.0	56.5	0.9	4.6	95	10	Str.		☉ <sup>o</sup> d
	10	- 36	- 44	E	7.7		0.9	4.6	95	9	Cust.	E	
	Mn.	- 37	- 41	E	7.7	56.5			93	10	Str.		
July 1.	2	84 37	74 39	E	8.8					10	Str.		≡
	4	- 38	- 36	E	6.2	56.6				10	Str.		≡
	6	- 38	- 34	E <sup>b</sup> N	4.6					10	Str.		≡
	8	- 38	- 31	E <sup>b</sup> N	6.0	55.7	0.3	4.6	98	10	Str.		☉ *
	10	- 39	- 29	ESE	8.4		0.3	4.6	98	10	Str.		☉ <sup>o</sup> d
	Noon	- 39	- 26	SE <sup>b</sup> E	6.5	56.0	0.8	4.6	95	10	Str.		<sup>4</sup>
	2	- 39	- 24	SE <sup>b</sup> E	4.6		0.7	4.6	94	10	Cust.	SE	
	4	- 39	- 24	SE <sup>b</sup> E	6.7	56.5	0.6	4.2	89	9	Cust.	SE	* <sup>o</sup>
	6	- 39	- 24	SE	5.3		0.2	4.3	92	10	Cust.	SE	
	8	- 39	- 23	SE	6.0	56.6	-0.1	4.1	91	5 <sup>o</sup>	Cicu.	SE	
	10	- 40	- 23	SSE	6.4		-1.3	3.9	94	10	Cust.		
	Mn.	- 40	- 22	SSE	5.7	57.0			97	10	Str.		* <sup>o</sup>
July 2.	2	83 40	74 22	SE	4.2				99	10	Str.		
	4	- 40	- 21	SE	6.0	58.0			99	10	Str.	SE	
	6	- 40	- 21	SE	5.8				98	10	Str.		≡ <sup>o</sup>
	8	- 40	- 20	SSE	5.8	58.4	-1.0	4.1	97	10	Cist.		☉ <sup>o</sup> d
	10	- 40	- 20	SSE	5.2		-1.2	4.0	95	10	Cist.		≡
	Noon	- 40	- 19	SSE	3.4	59.1	-1.2	3.9	93	10	Cist.		≡
	2	- 40	- 19	SE <sup>b</sup> S	3.6		-0.9	4.0	93	10 <sup>o</sup>	Cist.		m <sup>o</sup> <sup>5</sup>
	4	- 40	- 18	SE <sup>b</sup> S	4.2	59.8	-0.8	4.1	95	8	Ci.	SSE	
	6	- 41	- 18	SE <sup>b</sup> S	4.0		-0.9	4.0	95	0			
	8	- 41	- 17	SE	4.1	59.5	-1.2	4.0	94	5	Ci.	SSE	
	11	- 41	- 17	SE	3.9		-1.6	3.8	95	0			<sup>6</sup>
	Mn.	- 41	- 16	SE <sup>b</sup> E	4.0	58.8			93	0			
July 3.	2	84 41	74 16	SE <sup>b</sup> E	3.3				94	1	Cist.		<sup>7</sup>
	4	- 41	- 15	ESE	4.1	58.0			88	3	Cicu.	SE	
	6	- 41	- 15	E <sup>b</sup> S	5.0				87	10	Str.		
	8	- 41	- 15	E <sup>b</sup> N	4.8	56.3	-1.2	3.6	87	9	Cicu.	SE	<sup>8</sup>
	10	- 41	- 16	ENE	4.8		-1.0	3.7	87	10	Str.	SE	
	Noon	- 41	- 18	E <sup>b</sup> S	5.4	54.6	-0.5	3.7	86	10	Str.		
	2	- 41	- 19	E <sup>b</sup> S	4.6		0.1	4.1	89	10	Str.		
	4	- 41	- 20	SE	4.2	53.8	-0.6	4.1	93	10	Str.		
	6	- 41	- 22	SSE	4.6		-0.4	4.3	97	10	Str.		
	8	- 42	- 23	S <sup>b</sup> W	5.1	53.4	0.3	4.5	96	10 <sup>o</sup>	Ci.	S	
	10	- 42	- 25	SW <sup>b</sup> S	5.6		-1.2	4.0	94	10	Str.		m
	Mn.	- 42	- 26	SW <sup>b</sup> S	6.4	54.1			89	10	Str.		

<sup>1</sup> Snow drifting on to the instruments in the screen. <sup>2</sup> All the instruments covered with snow-slush. <sup>3</sup> All the instruments covered with snow-slush. <sup>4</sup> A change made in the position of the hut and the sun-screens. <sup>5</sup> During the last few days of high wind, the sun-screens have generally been taken down at 1 p. m. a new screen of canvass set up, which will hereafter be always used. <sup>6</sup> Low cist. <sup>7</sup> Low cist. <sup>8</sup> High cicu.



1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 4.	2	84° 42'	74° 28'	SW <sup>b</sup> S	5.1				94	10°	Ci.		
	4	- 42	- 29	SSW	6.2	755.2			86	10°	Cist.		
	6	- 42	- 31	S <sup>b</sup> W	6.8				82	10	Str.		
	8	- 42	- 32	S	6.0	56.5	-0.2	3.9	87	10	Str.		
	10	- 42	- 34	S <sup>b</sup> W	7.3		-0.2	4.1	90	10	Str.		
	Noon	- 42	- 35	S <sup>b</sup> W	6.4	57.3	0.2	4.3	92	10	Str.		
	2	- 43	- 37	S <sup>b</sup> W	7.3		0.2	4.0	88	10	Cust.	SSW	*°
	4	- 43	- 38	S <sup>b</sup> W	6.6	58.7	0.0	4.3	92	10	Str.	SSW	*°
	6	- 43	- 40	S <sup>b</sup> W	5.8		0.2	4.3	92	10	Str.		
	8	- 43	- 41	SW <sup>b</sup> S	5.2	59.4	-0.1	4.2	90	10	Str.		*°
	10	- 43	- 41	SW <sup>b</sup> S	6.6		-0.4	4.3	91	7°	Ci. Cust.	SW	☉*
	Mn.	- 43	- 41	SW	7.4	60.5			88	10	Ci. Cust.		
July 5.	2	84 43	74 48	SW	6.6				94	10°	Cist.		
	4	- 43	- 55	SW <sup>b</sup> S	5.5	61.5			98	10	Cist.		
	6	- 43	75 2	SW <sup>b</sup> S	5.4				93	10°	Ci.		
	8	- 43	- 9	S <sup>b</sup> W	5.2	61.9	-1.1	3.8	90	10°	Ci. Cust.		*°
	10	- 43	- 16	S <sup>b</sup> W	3.6		-1.2	3.9	93	10°	Cist.		
	Noon	- 43	- 23	S <sup>b</sup> W	5.6	62.1	-1.4	3.8	93	10°	Cist.		
	2	- 43	- 30	S	5.2		-0.9	3.8	88	10°	Cist.		
	4	- 43	- 37	S <sup>b</sup> E	4.3	62.2	-0.9	3.9	90	10°	Ci.		
	6	- 43	- 44	S <sup>b</sup> E	4.4		-1.4	3.7	90	10°	Cist.		
	8.15	- 43	- 40	S <sup>b</sup> E	5.2	61.4	-1.6	3.7	92	10°	Ci. Cust.		*°m
	10	- 43	- 37	SSE	5.2		-1.8	3.8	97	10	Str.		m
	Mn.	- 44	- 33	SE	5.8	60.5			99	10	Str.		
July 6.	2	84 44	75 29	SE <sup>b</sup> E	5.5				99	10	Str.		
	4	- 44	- 25	SE	6.2	58.9			99	10	Str.		≡
	6	- 44	- 22	SE <sup>b</sup> E	5.5				92	10	Str.		
	8	- 45	- 18	E	8.4	57.0	-0.9	3.9	91	10	Str.		* <sup>1</sup>
	10	- 45	- 14	E	7.6		-0.8	4.0	93	10	Str.		☉** <sup>2 2</sup>
	Noon	- 45	- 11	E	7.6	54.4	-0.1	4.3	94	10	Str.		△
	2	- 45	- 7	SE <sup>b</sup> E	8.0		0.3	4.4	95	10	Str.		☉°g
	4	- 46	- 3	SE <sup>b</sup> E	7.2	52.2	0.3	4.6	98	10	Str.		☉°
	6	- 46	- 0	SE	6.3		0.5	4.6	96	10	Str.		☉°
	8	- 46	74 56	SE <sup>b</sup> S	5.1	51.0	0.4	4.5	97	10	Str.		☉
	10	- 46	- 52	SE <sup>b</sup> S	4.8		0.5	4.6	97	10	Str.		g
	Mn.	- 47	- 48	SE <sup>b</sup> S	4.5	50.3			97	10	Str.		
July 7.	2	84 47	74 45	S <sup>b</sup> E	3.4				97	10			g
	4	- 47	- 41	S	2.2	50.5			97	10			☉°≡
	6	- 47	- 37	WNW	4.0				96	10	Snow.sk.	WNW	△ <sup>2</sup>
	8	- 47	- 34	W	7.0	51.7	-0.1	4.3	95	10	Str.		☉*
	10	- 48	- 30	W <sup>b</sup> N	7.0		-0.4	4.2	92	10°	Str.		
	Noon	- 48	- 29	W <sup>b</sup> N	5.6	53.3	-0.6	3.9	89	10°	Ci.		
	2	- 48	- 29	W <sup>b</sup> N	4.2		0.0	3.7	82	10	Cist.	W	*° <sup>3</sup>
	4	- 48	- 30	W	5.7	54.9	0.3	3.7	79	10	Cist.		
	6	- 47	- 31	WSW	3.6		0.1	3.8	83	10°	Ci.	WSW	
	8	- 47	- 33	WSW	3.8	55.2	-0.8	3.8	88	10	Ci.	WSW	
	10	- 47	- 35	SSW	2.7		-2.0	3.6	92	10°	Ci.		
	Mn.	- 47	- 38	SSW	3.2	55.3			92	10	Cist.		
July 8.	2	84 47	74 40	S	4.6				93	10	Str.		
	4	- 47	- 43	S <sup>b</sup> W	5.2	54.9			93	10	Str.		
	6	- 47	- 45	SSW	4.5				88	10	Str.		
	8	- 47	- 48	S <sup>b</sup> W	5.1	54.2	-0.8	3.8	89	10	Str.		
	10	- 46	- 50	S <sup>b</sup> W	5.7		-0.6	4.1	94	10	Str.		*
	Noon	- 46	- 53	S <sup>b</sup> W	5.8	53.0	-0.1	4.3	95	10	Str.		

<sup>1</sup> 9 a. m. \*°☉\*. <sup>2</sup> 11 a. m. \*°☉\*. <sup>3</sup> 3 p. m. high cie. S.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 8.	2	84° 46'	74° 55'	SW b W	6.5		-0.9	3.7	86	7	Cicu.	SW	
	4	- 46	- 58	WSW	5.8	75.4.0	-1.3	3.3	80	8	Cicu.	WSW	
	6	- 46	75 0	SSW	3.8		-0.2	3.7	81	10°	Ci.	WSW	
	8	- 46	- 3	S b W	4.5	53.3	0.6	4.5	94	10°	Ci.		
	10	- 46	- 5	S b W	4.4		0.2	4.5	97	10°	Cist.		
	Mn.	- 46	- 7	SW	5.2	52.5			96	10°	Cist.		
July 9.	2	84 45	75 10	SW	5.6				96	10°	Str.		*°
	4	- 45	- 12	SSW	4.8	51.8			98	10	Str.		*°
	6	- 45	- 15	SW b S	5.0				96	10	Str.		*°
	8	- 45	- 16	W b S	6.2	52.0	-0.4	4.4	98	7°	Cist.		*°
	10	- 45	- 18	W b S	5.7		-0.2	4.3	95	10°	Cist.	W	*°
	Noon	- 45	- 19	W b S	4.3	52.2	-0.9	4.1	97	10°	Cist.		
	2	- 45	- 21	W	4.7		-1.4	3.9	94	1	Cist.		1
	4	- 45	- 22	W	4.6	54.0	-1.8	3.8	94	9°	Cicu.	WNW	
	6	- 45	- 24	W b N	5.4		-0.7	3.9	89	9	Cicu.	WNW	
	8	- 44	- 25	W	6.0	55.2	-1.1	3.8	91	10	Ci. Cust.	W	
	10	- 44	- 27	W	5.2		-1.9	3.8	97	10			
	Mn.	- 44	- 28	W b S	5.4	56.1			99	10			
													≡
													≡
July 10.	2	84 44	75 30	W	6.6				96	10	Str.		
	4	- 44	- 31	W b S	5.8	57.7			99	10	Cist.		
	6	- 44	- 33	WSW	4.4				99	10	Str.		
	8	- 44	- 34	W b S	4.6	58.9	0.6	4.6	96	10	Ci. Cust.	W	
	10	- 43	- 36	W	6.2		0.0	4.5	99	10	Cist.		
	Noon	- 43	- 37	W b S	5.3	59.8	0.6	4.2	97	10	Cist.		
	2	- 43	- 39	WSW	4.9		0.6	4.2	97	10	Str.		
	4	- 43	- 40	SW b W	5.2	60.7	0.2	4.4	98	10°	Ci.		≡
	6	- 43	- 42	SW	6.2		-0.5	4.2	94	10	Str.		≡
	8	- 43	- 43	SW	5.6	60.7	-0.9	3.9	91	10	Ci. Cust.	SW	≡
	10	- 42	- 45	SW	5.9		-0.4	4.1	92	10	Str.		≡
	Mn.	- 42	- 46	SSW	5.0	60.6			99	10	Str.		≡
													≡
													≡
July 11.	2	84 42	75 48	SW b S	4.3				100	10	Str.		°
	4	- 42	- 49	SSW	4.2	59.1			99	10	Str.		≡
	6	- 42	- 51	SSW	3.8				99	10	Str.		≡
	8	- 42	- 53	SW	4.5	58.9	0.5	4.8	100	10	Str.		≡
	10	- 42	- 54	W b S	4.1		0.5	4.7	99	10	Str.		≡
	Noon	- 41	- 56	SW	2.4	59.1	0.9	4.8	98	10	Str.		≡
	2	- 41	- 57	W b S	3.4		0.6	4.6	97	10	Str.		≡
	4	- 41	- 59	W b S	1.8	59.5	1.7	4.5	88	10	Str.		≡
	6	- 41	76 0	WSW	1.4		1.2	4.6	92	10	Str.		≡
	8	- 41	- 1	WNW	2.9	59.8	0.3	4.5	97	10	Cist.		≡
	10	- 41	- 1	W b N	2.2		0.1	4.3	93	10°			≡
	Mn.	- 41	- 0	W b S	4.0	59.9			95	10°	Cist.		≡
													≡
													≡
July 12.	2	84 41	76 0	WSW	4.2				96	10°			≡
	4	- 41	- 0	W	5.0	59.9			93	10	Str.		≡
	6	- 41	- 0	NW b W	4.7				98	10	Str.		≡
	8	- 41	- 0	W b N	3.0	59.4	0.6	4.5	94	7	Ci. Cicu.	NW	
	10	- 41	- 0	W b N	2.5		0.9	4.5	92	2°	Ci.	NW	
	Noon	- 41	75 59	W	2.8	58.9	0.9	4.5	91	5°	Ci.		
	2	- 41	- 59	W	3.0		0.9	4.5	92	3°	Ci.	WNW	
	4	- 41	- 59	W b N	2.8	58.7	1.4	4.5	89	0			
	6	- 41	- 59	W	2.2		1.8	4.3	85	0			
	8	- 41	76 0	W b N	2.2	58.2	1.1	4.3	87	0			
	10	- 41	- 0	SSW	1.6		0.0	4.3	92	0			
	Mn.	- 41	- 0	SSW	1.6	57.9			91	0			
													≡
													≡

<sup>1</sup> Light low cist. <sup>2</sup> Blue sky on the horiz. between SE and SW, and between N and NE. <sup>3</sup> Bow opposite the sun.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 13.	2	84° 41'	76° 0'		0				91	0			
	4	- 41	- 0	S	1·8	75·5			85	0			
	6	- 41	- 0		0				86	0			
	8	- 41	- 1	SSE	2·2	56·9	1·4	4·2	83	0			
	10	- 41	- 1	SE <sup>b</sup> S	2·6		1·7	4·2	83	0			
	Noon	- 41	- 1	SSE	1·5	57·0	1·7	4·3	85	0			
	2	- 41	- 1	SE <sup>b</sup> S	2·8		1·4	4·5	89	0			
	4	- 41	- 1	S <sup>b</sup> E	3·8	56·9	1·2	4·4	90	0			
	6	- 41	- 1	S <sup>b</sup> E	3·6		0·6	4·3	91	0			
	8	- 41	- 0	S <sup>b</sup> E	3·8	56·2	0·6	4·5	94	0			
	10	- 41	75 59	SSE	3·8		0·6	4·4	92	0			
	Mn.	- 41	- 58	S <sup>b</sup> E	4·0	55·7			94	0			
July 14.	2	84 41	75 57	S	4·4				94	0			
	4	- 41	- 56	S	4·6	55·1			96	10			
	6	- 41	- 55	S	4·2				97	10			
	8	- 41	- 54	S <sup>b</sup> W	4·8	53·9	0·3	4·6	98	10°			
	10	- 41	- 53	S <sup>b</sup> E	4·6		0·4	4·4	95	10°			
	Noon	- 41	- 52	S <sup>b</sup> E	4·6	53·0	0·3	4·5	96	9°			
	2	- 41	- 51	S <sup>b</sup> W	3·6		-0·2	4·4	97	10°			
	4	- 41	- 50	SW <sup>b</sup> W	3·0	52·3	-0·8	4·3	100	10°			
	6	- 41	- 49	W <sup>b</sup> S	3·0		-0·4	4·2	94	5°	Ci. Cist.	WSW	
	8	- 41	- 48	SW <sup>b</sup> W	2·4	51·6	-0·5	4·2	95	10°			
	10	- 41	- 47	WSW	2·0		-0·3	4·4	99	10			
	Mn.	- 41	- 46	W	3·0	50·7			94	7			
July 15.	2	84 41	75 45	WNW	3·2				87	10	Cist.		
	4	- 41	- 44	WNW	3·2	50·3			85	10	Cust.		
	6	- 41	- 43	N <sup>b</sup> W	3·0				81	10	Str.		
	8	- 41	- 42	NNW	3·2	49·5	-0·7	3·5	81	10	Cust.	NNW	
	10	- 41	- 41	NNW	3·1		-0·7	3·4	80	10	Cust.	NNW	
	Noon	- 42	- 40	NNW	2·8	49·2	-0·5	3·7	85	10	Cust.		
	2	- 42	- 39	N <sup>b</sup> W	2·7		-0·6	3·8	86	10	Str.		
	4	- 42	- 38	NNW	3·2	49·0	-0·8	3·9	90	9°	Ci. Cust.		
	6	- 42	- 37	N <sup>b</sup> W	3·2		-0·9	3·7	87	10°	Cust.		
	8	- 42	- 36	N <sup>b</sup> W	2·8	48·7	-0·5	3·9	89	10°	Ci. Cust.	N	
	10	- 42	- 35	NNE	4·0		-1·2	3·6	86	10°	Cust.		
	Mn.	- 42	- 34	NNE	2·8	48·5			88	10	Str.		
July 16.	2	84 42	75 33	N	3·0				94	10			
	4	- 42	- 32	NNE	2·1	48·6			94	10	Str.		
	6	- 42	- 31	NNE	2·6				94	10			
	8	- 42	- 29	NE <sup>b</sup> N	3·6	48·9	1·1	4·7	95	10	Str.		
	10	- 42	- 28	NE	3·9		0·7	4·7	96	10	Str.		
	Noon	- 42	- 27	NE <sup>b</sup> E	4·1	49·8	0·5	4·7	97	10	Str.		
	2	- 42	- 26	ENE	5·2		0·7	4·7	97	10	Str.		
	4.15	- 42	- 25	ENE	5·2	51·3	0·5	4·7	98	10	Str.		
	6	- 42	- 24	ENE	5·4		0·4	4·5	97	10	Str.		
	8	- 42	- 23	ENE	4·4	52·9	0·1	4·5	99	10	Str.		
	10	- 42	- 22	ENE	4·6		-0·1	4·5	99	10	Str.		
	Mn.	- 42	- 21	ENE	4·8	53·6			97	10°			
July 17.	2	84 42	75 20	E <sup>b</sup> N	3·6				97				
	4	- 42	- 18	E <sup>b</sup> N	4·4	54·7			96	10°	Cist.		
	6	- 42	- 16	NE <sup>b</sup> E	3·9				95	0	Ci.		
	8	- 42	- 14	ENE	3·4	55·4	-0·2	4·2	92	10	Cicu.	ENE	
	10	- 42	- 11	NE	3·6		0·7	4·5	92	10	Cicu. Cist.	ENE	
	Noon	- 42	- 8	NE	2·4	55·9	1·1	4·6	92	9°	Ci. Cicu.	ENE	

<sup>1</sup> Moved the screen to a place athwart the mizen-chains on the port-side, 30 paces from the ship. <sup>2</sup> Blue sky in WSW. <sup>3</sup> Blue sky fairly continuous on the horiz. between E and NW.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 17.	2	84° 42'	75° 4'	NE	2.5		1.2	4.6	93	10	Cicu.	ENE	
	4	- 42	- 1	NE <sup>b</sup> N	3.1	75.6.9	0.7	4.6	94	10	Str.		
	6	- 42	74 58	NE <sup>b</sup> N	3.6		0.5	4.6	95	10	Cicu.	NE	
	8	- 42	- 55	NE <sup>b</sup> N	3.4	56.8	0.4	4.5	96	10	Cust.		
	10	- 42	- 52	NE <sup>b</sup> N	4.0		0.3	4.6	98	10°	Str.		
	Mn.	- 42	- 49	NE	5.2	57.1			99	10°	Str.		
July 18.	2	84 42	74 46	NE	4.3				99	10	Str.		
	4	- 41	- 42	NE	4.5	57.2			99	10	Str.		≡
	6	- 41	- 39	NE	3.8				92	6	Cicu.	NE	
	8	- 41	- 36	NE <sup>b</sup> N	4.6	57.5	0.6	4.4	92	9	Cicu.	NE	
	10	- 41	- 33	NE	5.4		0.1	4.4	97	10	Str.		
	Noon	- 41	- 30	NE	4.2	57.9	0.3	4.5	97	10	Str.		
	2	- 41	- 27	NE	4.1		0.3	4.5	97	10	Str.		
	4	- 41	- 24	NE	3.2	58.0	0.6	4.5	95	10	Cust.	N	1
	6	- 41	- 20	NE	3.6		0.3	4.5	96	10	Str.		*°
	8	- 41	- 17	NE	3.4	58.5	0.4	4.5	96	10	Cust.		°
	10	- 41	- 14	NE	2.8		0.3	4.5	96	10	Cust.		°
	Mn.	- 41	- 11	NE <sup>b</sup> N	3.0	58.5			95				≡
July 19.	2	84 41	74 8	NNE	2.7				93	3°	Ci.	ENE	
	4	- 41	- 5	N	2.5	58.7			96	10			≡
	6	- 41	- 2	NNW	2.0				91	4	Cicu.		
	8	- 40	73 58	N <sup>b</sup> W	3.9	58.3	0.9	4.6	95	10	Cust.	NE	
	10	- 40	- 57	N <sup>b</sup> W	3.7		1.3	4.8	94	10	Cicu.	NNE	
	Noon	- 40	- 57	NW <sup>b</sup> N	3.7	57.9	1.3	4.7	93	10	Cicu.	NNE	
	2	- 40	- 55	N	3.6		1.4	4.9	96	10	Cicu.	NNE	
	4	- 40	- 52	N <sup>b</sup> W	4.8	58.4	1.2	4.6	93	3°	Ci. Cicu.	N	
	6	- 40	- 48	N	3.6		1.2	4.6	93	8°	Cicu.	N	
	8	- 40	- 46	N <sup>b</sup> W	4.4	58.6	1.1	4.6	93	2°	Ci.	N	
	10	- 40	- 44	NNW	4.3		1.6	4.5	88	3°	Ci.	NNE	
	Mn.	- 40	- 42	N <sup>b</sup> W	3.4	58.4			88	9	Cu.	NNE	
July 20.	2	84 40	73 40	NW <sup>b</sup> N	3.0				88	4°	Ci.	NNE	
	4	- 40	- 37	NW	2.9	58.4			89	0			
	6	- 40	- 35	NW <sup>b</sup> N	3.6				93	0			
	8	- 39	- 33	NW <sup>b</sup> N	3.4	58.2	1.0	4.6	95	3°	Ci.	NE	
	10	- 39	- 31	N <sup>b</sup> W	4.0		0.1	4.5	99	10			≡
	Noon	- 39	- 29	N <sup>b</sup> W	3.3	58.2	-0.2	4.4	97	10			≡
	2	- 39	- 26	NNE	3.7		-0.2	4.4	98	10	Cist.		≡
	4	- 39	- 24	NNE	3.8	58.6	-0.5	4.3	99	10°	Cist.		° d ≡
	6	- 39	- 22	NNE	4.4		-0.9	4.2	98	10°	Cist.		≡
	8	- 39	- 20	NNE	4.4	58.8	-1.0	4.2	98	10°	Cist.		≡
	10	- 38	- 17	NNE	2.6		-1.2	4.0	96	10	Ci. Cust.		°
	Mn.	- 38	- 15	NNE	2.6	58.2			97	10	Str.		≡
July 21.	2	84 38	73 13	N	3.6				96	10	Str.		
	4	- 38	- 11	N	4.4	58.1			97	10	Str.		
	6	- 38	- 9	N <sup>b</sup> E	4.0				98	10			≡
	8	- 38	- 6	N <sup>b</sup> E	3.9	57.9	0.7	4.7	97	10	Str.		
	10	- 38	- 4	N <sup>b</sup> E	4.8		0.5	4.7	99	10	Str.		
	Noon	- 38	- 2	NNE	4.4	57.5	0.6	4.7	99	10	Str.		
	2	- 37	- 0	NNE	5.2		0.3	4.6	99	10	Cist.		° d ≡
	4	- 37	72 57	NE <sup>b</sup> N	4.5	57.6	0.1	4.5	98	10	Cist.		° d ≡
	6	- 37	- 55	NNE	4.1		0.1	4.5	98	10	Cist.		° d ≡
	8	- 37	- 53	NE	4.6	57.6	-0.1	4.4	97	10	Str.		
	10	- 37	- 51	NNE	4.6		-0.4	4.3	96	10	Cist.		*° d ≡
	12.15	- 37	- 48	NNE	3.6	57.1			94	10	Str.		

1 5 p. m. \*.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 22.	2	84° 37'	72° 46'	NNE	2.2				96	10°	Cist.		
	4	- 37	- 44	N	4.2	756.7			94	8	Ci.	WNW	≡
	6	- 36	- 42	N	3.0				90	0			
	8	- 36	- 39	NNW	3.8	56.0	-0.2	4.3	95	10°	Cist.		
	10	- 36	- 38	NNW	3.1		-0.2	4.4	96	10°	Cist.		
	12.15	- 36	- 36	N	3.6	54.9	0.7	4.5	93	0			
	2	- 36	- 34	NW	2.0		1.2	4.6	92	1°			
	4	- 36	- 32	NW <sup>b</sup> W	3.2	53.9	1.3	4.6	91	3°			
	6	- 36	- 31	N <sup>b</sup> W	5.2		-0.1	4.6	100	10			
	8	- 35	- 29	N	6.0	53.1	-0.3	4.4	96	10			*°
	10	- 35	- 27	N	7.2		-0.4	4.2	94	10			
	Mn.	- 35	- 25	N <sup>b</sup> E	6.6	52.8			99	10			1
July 23.	2	84 35	72 24	N	4.2				99	10°	Str.		
	4	- 35	- 22	N	4.4	52.7			96	10	Str.		
	7	- 34	- 19						92				
	8	- 34	- 18	NNW	4.9	52.4	0.8	4.5	92	10	Cust.		
	10	- 34	- 17	NW <sup>b</sup> N	4.1		1.1	4.6	93	10	Cust.	NW	
	Noon	- 34	- 15	NW <sup>b</sup> W	4.1	52.6	1.0	4.7	95	10	Cust.	NW	
	2	- 34	- 13	WNW	4.7		1.2	4.4	89	9°	Cicu.	WNW	
	4	- 33	- 12	W <sup>b</sup> N	4.4	52.5	1.2	4.0	80	10	Str.		
	6	- 33	- 10	W <sup>b</sup> N	4.7		0.9	4.3	88	10	Str.		☉° p <sup>2</sup>
	8	- 33	- 8	W <sup>b</sup> N	6.4	52.3	0.7	4.4	90	10	Str.		
	10	- 33	- 6	WNW	5.0		0.3	4.4	95	10	Str.		
	Mn.	- 33	- 5	NNW	4.5	52.4			99	10			≡
July 24.	2	84 32	72 3	N	5.2				97	10	Str.		
	4	- 32	- 1	NNE	4.5	54.1			94	10	Cist.		
	6	- 32	71 59	NNE	3.5				97	10°	Cist.		
	8	- 32	72 0	N <sup>b</sup> W	3.4	55.3	-0.8	4.0	92	9°	Cist.		
	10	- 32	71 58	N <sup>b</sup> W	2.3		-0.9	3.8	88	10°	Cist.		
	Noon	- 32	- 56	N <sup>b</sup> W	2.2	56.0	-0.9	3.8	88	5	Ci. Cust.		
	2	- 32	- 54	N	2.8		-1.3	3.8	90	8°	Cicu.		
	4	- 32	- 52	W <sup>b</sup> S	2.4	57.0	-0.5	3.7	83	10	Ci. Cust.		*°
	6	- 32	- 50	W <sup>b</sup> S	2.8		-1.0	3.9	90	10	Cust.		*°
	8	- 32	- 53	WSW	3.8	56.7	-1.5	3.7	91	10	Cust.		*°
	10	- 32	- 56	SW	4.1		-2.3	3.6	95	10	Str.		*°
	Mn.	- 32	- 59	SW <sup>b</sup> W	3.8	56.1			98	9	Cust.		
July 25.	2	84 31	72 2	SW <sup>b</sup> S	4.7				97	10	Str.		
	4.20	- 31	- 6	SW <sup>b</sup> S	5.5	55.1			97	10	Str.		
	7	- 31	- 10										≡
	8	- 31	- 12	SSW	6.5	54.0	-0.2	4.5	100	10	Str.		☉° <sup>3</sup>
	10	- 31	- 15	SW <sup>b</sup> S	6.8		0.1	4.5	98	10	Str.		
	Noon	- 31	- 18	SW <sup>b</sup> S	6.8	53.3	0.3	4.5	97	10	Str.		
	2	- 31	- 21	SW <sup>b</sup> S	6.4		0.6	4.6	97	10	Cist.		
	4	- 31	- 24	W <sup>b</sup> S	5.0	53.3	0.8	4.7	96	10	Cist.		4
	6	- 31	- 27	SW	5.7		0.8	4.6	95	10	Str.		
	8	- 31	- 30	SW <sup>b</sup> S	5.6	52.8	0.6	4.6	96	10	Cust.	SW	
	10	- 31	- 33	SW	5.4		0.5	4.6	97	10	Str.		5
	Mn.	- 31	- 36	SW	6.2	52.4			100	10	Str.		≡
July 26.	2	84 31	72 39	SW <sup>b</sup> W	7.6				100	10	Str.		≡
	4	- 30	- 42	SW	7.4	52.2			99	10	Str.		
	6	- 30	- 45	SW <sup>b</sup> W	6.8				100	10	Str.		
	8	- 30	- 48	SW	6.4	51.4	-1.1	4.2	100	10	Str.		
	10	- 30	- 51	SW <sup>b</sup> S	6.4		-0.4	4.4	99	10	Str.		
	Noon	- 30	- 54	SW <sup>b</sup> S	7.8	50.1	0.0	4.6	100	10	Str.		

<sup>1</sup> Double ☉ with 2 mock-suns and tangent bow above. <sup>2</sup> Thick, dark bank of cloud on the horiz. W to ENE.

<sup>3</sup> Blue sky round the horiz. from ENE over SW to WSW. <sup>4</sup> Blue sky tolerably continuous round the horiz. between SSE and WSW. <sup>5</sup> Blue sky in SSW, and some small patches in the NNW quadrant.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 26.	2	84°30'	72° 57'	SW	7.6		-0.1	4.5	98	10			☼☼☼
	4	- 30	73 0	SW	6.9	749.6	-0.1	4.3	94	10	Str.		☼°d
	6	- 30	- 4	SW b S	5.6		0.1	4.5	98	10	Str.		☼°d
	8	- 30	- 7	SSW	7.1	48.1	0.1	4.6	100	10	Str.		☼* ☼*
	10	- 30	- 10	SSW	7.4		0.1	4.5	98	10	Str.		☼*
	Mn.	- 30	- 13	SSW	8.6	46.2			97	10	Str.		☼*
July 27.	2	84 30	73 16	WSW	5.5				100	10	Str.		☼*
	4	- 29	- 19	W	8.9	46.6			98	10	Cist.		☼* <sup>1</sup>
	6	- 29	- 22	W	10.2				86	10	Str.		
	8	- 29	- 25	W	8.3	49.0	-1.0	3.6	84	10	Str.		
	10	- 29	- 25	W	9.8		-0.9	3.9	90	10	Cust.		
	Noon	- 29	- 25	SW b W	8.0	50.2	-1.5	3.6	88	10	Cust.		
	2	- 29	- 26	SW b W	9.0		-1.0	3.8	89	9	Ci. Cust.	SW	*
	4	- 29	- 27	SW	8.8	51.3	-1.2	3.5	85	10 <sup>2</sup>	Cist.		*°
	6	- 30	- 29	SW	8.6		-1.1	3.8	90	10	Cist.		
	8	- 30	- 30	SW b S	9.2	51.2	-1.4	3.7	90	10	Cust.		
	10	- 30	- 31	SSW	8.6		-1.4	3.6	87	10	Ci. Cust.		
	Mn.	- 30	- 32	SW b S	8.5	50.3			92	10	Cust.		
July 28.	2	84 30	73 34	SW b S	9.5				91	10	Str.		
	4	- 30	- 35	SSW	6.9	49.8			94	10	Str.		*°
	6	- 30	- 36	SW b S	8.4				92	10	Str.		
	8	- 30	- 37	SSW	8.8	49.1	-2.1	3.6	93	10	Str.		
	10	- 30	- 39	SSW	6.8		-1.4	4.0	96	10	Str.		°
	Noon	- 31	- 40	SW b S	7.2	48.9	-0.6	4.1	93	10	Str.		*°
	2	- 31	- 41	SW b S	7.2		-0.1	4.2	93	10	Str.		*°
	4	- 31	- 42	SW b S	7.6	49.6	0.3	4.4	94	10	Str.		*°
	6	- 31	- 43	SW b W	4.5		0.3	4.3	92	10	Ci. Cust.		*° <sup>3</sup>
	8	- 31	- 45	WSW	6.8	50.3	-1.3	3.8	92	10	Ci. Cust.		
	10	- 31	- 46	SW b W	4.8		-2.1	3.7	94	10			
	Mn.	- 31	- 47	SW b S	4.0	50.9			95	10	Str.		*°
July 29.	2	84 31	73 48	SW b S	3.7				96	10	Cist.		
	4	- 31	- 50	SW b S	2.2	50.8			96	10	Str.		*°
	6	- 32	- 51	SSE	1.2				95	10 <sup>2</sup>	Cist.		
	8	- 32	- 52	NE b E	2.5	49.3	-2.2	3.6	92	10			☼°
	10	- 32	- 53	NE b E	3.8		-1.9	3.8	97	10	Str.		*°
	Noon	- 32	- 55	NE b N	4.7	46.9	-1.4	4.1	98	10	Cist.		☼* ☼*
	2	- 32	- 57	NE	4.3		-1.5	4.0	99	10	Str.		☼* ☼*
	3	- 32	- 58	NNE	7.5		-1.0	4.2					☼* ☼*
	4	- 32	- 59	NE	7.2	43.8	-0.6	4.3	98	10	Str.		☼* ☼*
	6	- 32	74 1	NE b E	7.8		-0.1	4.5	99	10	Str.		☼* ☼*
	8	- 33	- 3	NE b E	10.2	39.4	0.0	4.5	99	10	Str.		☼* ☼*
	10	- 33	- 5	NE	9.8				99	10	Str.		☼° <sup>2</sup>
	Mn.	- 33	- 7	NE	10.3	31.9			99	10	Str.		
July 30.	2	84 33	74 9	SSE	6.8					10	Str.		
	4	- 33	- 12	SSE	6.9	27.8			99	10	Str.		
	6	- 33	- 14	S b E	10.2				99	10	Str.		
	8	- 34	- 16	SW b S	7.8	28.4	0.4	4.6	98	10	Cist.		
	10	- 34	- 17	SW b W	10.0		-0.5	4.3	96	10	Cust.		
	Noon	- 34	- 17	W b S	13.6	30.9	-0.5	3.9	88	10	Cust.		
	2	- 33	- 22	W b S	14.2		-1.0	3.5	83		Cust.		
	3	- 33	- 26	W	15.1								
	4	- 33	- 30	W	13.0	37.4	-1.3	3.5	84	10	Cust.		
	5.15	- 32	- 35	W	15.5								

<sup>1</sup> In the course of the morning the ice nearest to the ship divided and became displaced, so that the ship with its floe swung right round through S. <sup>2</sup> Blue sky on the horiz. between NW and N. <sup>3</sup> 5.30 p. m. \*

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 30.	6	84° 32'	74° 38'	WSW	14.7		-1.4	3.6	86	10	Str.		*° *° *°
	8	- 31	- 46	W	11.6	740.2	-1.3	3.7	88	10	Str.		
	10	- 31	- 54	W <sup>b</sup> S	8.4		-1.2	3.8	90	10	Cust.		
	Mn.	- 30	75 1	W <sup>b</sup> S	9.8	43.4			93	10	Cust.		
July 31.	2	84 29	75 9	W <sup>b</sup> S	9.4				88	10	Cust.		1 2 3 *° 4 ⊙ d ≡ ⊙ d
	4	- 29	- 17	W <sup>b</sup> S	7.4	46.1			87	10	Cust.	W	
	6	- 23	- 25	W <sup>b</sup> S	6.8				85	10	Str.	W	
	8	- 23	- 33	WSW	7.2	48.6	-0.8	3.9	88	10	Ci. Cust.	WSW	
	10	- 23	- 38	WSW	6.1		-0.6	3.9	89	10°	Ci. Cust.	WSW	
	Noon	- 23	- 40	WSW	7.0	51.2	0.3	4.3	93	10			
	2	- 23	- 44	WSW	6.3		0.5	4.5	95	10			
	4	- 23	- 50	SW <sup>b</sup> W	5.2	53.1	0.3	4.3	92	10	Ci. Cust.		
	6	- 23	- 56	WSW	6.0		0.2	4.3	93	10	Ci. Cust.		
	8	- 23	76 1	WSW	5.0	54.9	0.1	4.5	98	10	Str.		
	10	- 23	- 6	SW <sup>b</sup> W	8.5		-0.3	4.3	97	10	Str.		
	Mn.	- 29	- 10	SW <sup>b</sup> W	7.6	56.4			99	10	Str.		
Aug. 1.	2	84 29	76 15	SW <sup>b</sup> W	7.6				97	10	Str.		⊙ d 5 6
	4	- 29	- 20	WSW	5.0	57.8			97	10	Str.		
	6	- 29	- 25	SW <sup>b</sup> W	7.0				96	10	Str.		
	8	- 29	- 30	SW <sup>b</sup> S	7.7	58.7	0.2	4.6	98	10	Str.		
	10	- 29	- 35	SW <sup>b</sup> S	8.4		0.3	4.5	97	10	Str.		
	Noon	- 29	- 40	SW <sup>b</sup> S	7.1	59.7	0.5	4.6	97	10	Str.		
	2	- 30	- 45	SW	8.6		0.7	4.6	94	10	Str.		
	4	- 30	- 50	SW <sup>b</sup> W	6.6	61.5	0.7	4.4	90	10	Str.		
	6	- 30	- 55	SW <sup>b</sup> W	8.2		0.9	4.2	86	10	Cicu.	W	
	8	- 30	77 0	WSW	8.5	63.7	0.4	4.3	90	0			
	10	- 30	- 5	WSW	9.2		0.5	4.1	88	9	Cicu.	W	
	Mn.	- 30	- 10	SW <sup>b</sup> S	7.4	65.3			85	7	Str.	W	
Aug. 2.	2	84 30	77 14	SW	7.6				81	10°	Cicu.	W	WSW WNW W W
	4	- 30	- 19	SW	6.2	66.5			82	10	Cist.		
	6	- 31	- 24	SSW	6.2				81	5	Cicu.		
	8	- 31	- 29	S	8.2	66.8	0.4	3.8	81	1°	Ci.		
	10	- 31	- 34	S <sup>b</sup> W	7.6		0.8	3.9	80	3°	Ci.		
	Noon	- 31	- 39	S	6.9	67.3	0.8	3.8	79	7°	Ci.		
	2	- 31	- 40	S	7.2		1.0	4.0	79	0			
	4	- 31	- 40	S	6.2	67.9	0.8	3.9	81	0			
	6	- 31	- 40	S	6.4		0.5	4.0	84	0			
	8	- 31	- 41	S	6.2	68.4	-0.3	3.9	88	2°	Ci.	W	
	10	- 32	- 42	S <sup>b</sup> E	6.5		-1.7	3.7	93	5°	Ci.	W	
	Mn.	- 32	- 43	S <sup>b</sup> E	4.7	69.0			94	10	Ci. Cust.		
Aug. 3.	2	84 33	77 45	S <sup>b</sup> E	5.2				93	10	Cicu.		W WSW WSW
	4	- 33	- 46	S <sup>b</sup> E	4.3	69.0			93	10°	Ci.		
	6	- 34	- 47	S <sup>b</sup> E	4.1				93	5	Ci.		
	8	- 34	- 48	S <sup>b</sup> E	4.5	69.2	-0.8	3.9	90	10°	Ci.		
	10	- 34	- 49	S <sup>b</sup> E	5.0		0.0	4.1	89	7°	Ci.		
	Noon	- 35	- 50	S <sup>b</sup> E	4.8	69.2	0.7	4.2	87	10°	Ci.		
	2	- 35	- 52	SSE	4.2		1.0	4.3	87	0			
	4	- 35	- 53	S <sup>b</sup> E	5.0	69.2	0.7	4.3	89	0			
	6	- 35	- 54	SSE	4.6		0.3	4.3	92	0			
	8	- 35	- 53	S <sup>b</sup> E	4.7	69.2	0.1	4.2	91	9°	Ci.	S	
	10	- 35	- 53	SSE	4.2		-0.3	4.1	92	10°	Ci.	S	
	Mn.	- 35	- 52	SSE	3.3	68.9			91	10°	Cist.		

<sup>1</sup> Blue sky along the horiz. over WNW between WSW and ENE. <sup>2</sup> Some clear patches of blue sky between W and WSW. <sup>3</sup> 1 p. m. \*. <sup>4</sup> Numerous patches of blue sky all round the horiz., except between ESE and SSE. <sup>5</sup> Some blue sky in ENE. <sup>6</sup> Blue sky from WSW through NW and N to NE.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form	Dir.	
Aug. 4.	2	84° 35'	77° 51'	SE <sup>b</sup> S	5.2				93	10	Cist.	SSE	
	4	- 35	- 50	SE	3.6	768.4			83	7°	Ci.	S	
	6	- 35	- 50	SE <sup>b</sup> E	4.0				85	1°	Ci.		
	8	- 36	- 49	SE	4.8	67.7	-0.3	4.0	89	1°	Ci.		
	10	- 36	- 48	SE <sup>b</sup> E	4.4		0.1	4.0	88	10°	Cicu.		
	Noon	- 36	- 47	ESE	4.6	66.8	0.4	4.1	88	8°	Cicu.	SE	
	2	- 36	- 47	ESE	4.5		1.0	4.5	91	10	Ci. Cist.	S	
	4	- 36	- 46	SE <sup>b</sup> E	4.9	66.0	0.5	4.6	97	10	Str.		
	6	- 36	- 45	SE	4.1		0.2	4.6	98	10	Str.		≡
	8	- 36	- 44	S	3.5	65.8	-0.1	4.4	97	10	Str.		≡
	10	- 36	- 44	S	3.2		-0.3	4.4	98	10	Str.		☉ d ≡
	Mn.	- 36	- 43	S <sup>b</sup> W	3.0	65.8			99	10	Cist.		≡
Aug. 5.	2	84 36	77 42	S <sup>b</sup> W	2.6				98	10	Str.		≡
	4	- 37	- 41	SW	2.6	66.4			99	10	Str.		≡
	6	- 37	- 41	WSW	2.2				97	10°	Cist.		≡
	8	- 37	- 40	SW <sup>b</sup> W	3.5	66.7	-0.5	4.3	98	10	Cist.		☉ d ≡
	10	- 37	- 39	W <sup>b</sup> N	3.1		-0.5	4.3	98	10	Cust.		≡
	Noon	- 37	- 38	WNW	2.4	67.4	0.0	4.3	95	10	Str.		
	2	- 37	- 37	WNW	3.4		-0.2	4.4	96	10	Str.		≡ ☉ d
	4	- 37	- 37	WNW	4.5	67.8	-0.6	4.2	96	10	Cust.		≡ ☉ d
	6	- 37	- 36	WNW	2.4		-0.4	4.3	96	10	Cust.		≡
	8	- 37	- 35	WSW	2.7	68.3	0.2	4.3	93	10	Str.		1
	10	- 37	- 34	W	3.3		0.1	4.5	98	10	Str.		≡
	Mn.	- 38	- 34	W <sup>b</sup> N	2.8	68.5			97	10	Str.		≡
Aug. 6.	2	84 38	77 33	W <sup>b</sup> N	2.2				97	10°	Str.		≡
	4	- 38	- 32	W <sup>b</sup> N	2.3	68.8			96	7°	Ci. Cust.		
	6	- 38	- 31	W <sup>b</sup> N	3.5				95	5°	Ci.		
	8	- 38	- 31	W	3.2	68.8	0.0	4.3	93	10	Cust.	NW	2
	10	- 38	- 30	WSW	2.8		0.3	4.4	94	10	Str.		
	Noon	- 38	- 29	SW <sup>b</sup> W	2.8	68.6	0.6	4.6	97	10	Str.		
	2	- 38	- 28	WSW	3.4		0.7	4.7	96	10	Str.		
	4	- 39	- 28	W <sup>b</sup> N	3.6	68.6	0.7	4.7	96	10°			≡
	6	- 39	- 28	WNW	4.8		-0.8	4.2	99	10			≡
	8	- 38	- 27	NW	5.3	68.6	-1.3	4.1	99	10			☉ d ≡
	10	- 38	- 27	NW	3.8		-0.5	4.3	99	10			☉ d ≡
	Mn.	- 38	- 26	WSW	2.3	68.7			98	10			≡
Aug. 7.	2	84 38	77 26	W	3.0				98	10	Str.		≡
	4	- 38	- 25	W	3.5	68.4			94	0			
	6	- 38	- 24	WNW	3.5				94	9	Cicu.		
	8	- 38	- 24	WNW	4.2	67.8	1.2	4.7	94	10°	Cicu.	WNW	
	10	- 38	- 23	NW <sup>b</sup> W	4.4		0.4	4.5	97	10	Str.		≡
	Noon	- 38	- 23	NW	5.0	67.7	0.1	4.4	97	10	Str.		3
	2	- 38	- 24	NW	4.9		-0.2	4.4	98	10	Str.		☉ d <sup>4</sup>
	4	- 38	- 24	NW	2.6	67.6	-0.4	4.0	90	10	Str.		
	6	- 38	- 24	NW <sup>b</sup> N	3.7		-0.7	4.0	92	10	Cust.	NW	☉ d
	8	- 38	- 24	NW	2.8	67.2	-1.3	3.8	92	10	Cust.		
	10	- 38	- 24		0		-1.0	3.9	91	10	Str.		
	Mn.	- 38	- 24		0	66.9			91	10	Str.		
Aug. 8.	2	84 38	77 24		0				91	10	Str.		
	6	- 38	- 24	NW	2.2				92	10	Str.		
	8	- 38	- 24	N <sup>b</sup> W	2.3	65.7	-0.1	4.2	93	9	Cu.	NW	
	10	- 38	- 24	NNW	1.6		0.1	4.3	93	10	Cust.		
	Noon	- 38	- 24	NW	2.7	65.2	0.0	4.5	98	10	Cust.		

<sup>1</sup> Blue sky between SSW and ENE over E, and between NNE and WNW. <sup>2</sup> Blue sky on the horiz. between N and W. <sup>3</sup> Blue sky between SSW and ESE. <sup>4</sup> 3 p. m. \*.



1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 8.	2	84° 38'	77° 18'	NW	2.4		0.0	4.0	87	10	Ci. Cust.		
	4	- 38	- 12	NW	2.3	765.0	-0.2	4.2	92	10	Cist.		
	6	- 38	- 6	NW <sup>b</sup> N	3.2		-1.6	3.9	97	10	Cist.		
	8	- 38	- 5	W	2.4	64.2	-1.7	3.7	93	10	Cicu.	NW	<sup>1</sup>
	10	- 38	- 4	WSW	2.6		-1.1	4.0	94	10			≡
	Mn.	- 37	- 4	WSW	3.0	63.4			98	3	Cicu.		
Aug. 9.	2	84 37	77 3	WSW	4.3				98	10°	Str.		
	4	- 37	- 2	W <sup>b</sup> S	3.3	62.9			98	10	Cust.		
	6	- 37	- 1	NW <sup>b</sup> W	3.8				95	10	Str.		
	8	- 37	- 1	NNW	4.4	63.2	-0.8	3.8	89	9	Ci. Cust.	NNW	
	10.15	- 36	- 0	NW <sup>b</sup> N	5.0		-1.1	4.1	96	10	Str.		≡ <sup>2</sup>
	Noon	- 36	76 59	NW	4.4	64.3	-1.3	3.9	94	10°	Ci. Cust.	NW	* <sup>0</sup> ≡ <sup>0</sup>
	2	- 36	- 58	NW	6.3		-0.4	4.0	90	5	Ci. Cust.		* <sup>0</sup> <sup>3</sup>
	4	- 36	- 57	NW	4.4	66.7	-1.4	3.7	90	6	Cicu.		
	6	- 36	- 57	NW	4.2		-2.2	3.6	95	6	Ci. Cust.		<sup>4</sup>
	8	- 35	- 56	NW <sup>b</sup> W	5.0	66.1	-2.3	3.5	93	7	Ci. Cust.		
	10	- 35	- 55	WNW	5.0		-2.8	3.5	94	8	Ci. Cust.		≡
	Mn.	- 35	- 54	W	4.6	66.0			94	0			
Aug. 10.	2	84 35	76 53	W	3.7				95	0			
	4	- 34	- 53	W	4.8	66.3			94	0			
	6	- 34	- 52	WNW	5.0				98	10°	Str.		
	8	- 34	- 51	W	4.2	66.2	-3.4	3.5	98	10°	Cist.		≡ <sup>0</sup>
	10	- 34	- 52	S <sup>b</sup> W	4.9		-3.2	3.4	97	10°	Cist.		≡ <sup>0</sup>
	Noon	- 34	- 53	SW <sup>b</sup> W	3.2	66.1	-2.2	3.6	91	2°	Cist.	W	≡ <sup>0</sup>
	2	- 34	- 53	W	4.4		-1.8	3.6	90	0			
	4	- 34	- 54	NW <sup>b</sup> W	4.6	66.5	-2.1	3.6	93	10	Cust.		
	6	- 34	- 54	NNW	4.8		-2.4	3.5	92	10°	Cist.		
	8	- 34	- 54	N <sup>b</sup> W	4.3	67.1	-4.4	3.0	91	5°	Ci.	N	
	10	- 34	- 53	N <sup>b</sup> E	3.8		-3.6		92	10°	Str.		
	Mn.	- 34	- 52	NW <sup>b</sup> N	2.3	67.7			95	10	Str.		≡
Aug. 11.	2	84 34	76 50	NW	0.0				96	10	Str.		≡
	4	- 33	- 49	NNW	0.0	68.2			93	0			
	6	- 33	- 48		0				92	10	Str.		≡
	8	- 33	- 47	N <sup>b</sup> W	3.6	68.6	-4.2	2.8	85	10°	Cist.		
	10	- 33	- 46	NW <sup>b</sup> N	3.4		-5.0	2.7	89	0			
	Noon	- 33	- 45	NNW	3.5	68.8	-3.7	3.0	89	1°	Cicu.	NNW	
	2	- 33	- 43	NNW	3.3		-2.3	3.5	89	10	Ci. Cust.	NNW	* <sup>0</sup>
	4	- 33	- 42	N <sup>b</sup> W	4.0	69.3	-1.5	3.8	92	10°	Str.		⊙ <sup>d</sup>
	6	- 33	- 41	NNW	3.8		-1.2	3.8	91	10°	Str.		
	8	- 33	- 40	N <sup>b</sup> W	5.4	69.8	-2.0	3.3	84	10	Cust.	N	
	10	- 33	- 39	N	4.1		-2.7	3.2	86	10	Cust.		* <sup>0</sup>
	Mn.	- 33	- 38	N	3.6	70.0			86	10	Cust.		
Aug. 12.	2	84 33	76 37	NW <sup>b</sup> N	3.2				87	10	Cist.		
	4	- 32	- 35	NNW	4.0	70.7			90	10	Cicu.		
	6	- 32	- 34	NW <sup>b</sup> N	3.5				93	10	Str.		
	8	- 32	- 33	NW <sup>b</sup> W	3.1	70.6	-2.9	3.3	90	10	Cu.	E	
	10	- 32	- 32	NW <sup>b</sup> N	4.6		-2.3	3.5	90	10	Cu.	E	
	Noon	- 32	- 31	NW	3.0	70.9	-1.9	3.6	91	10	Cu.	ENE	

<sup>1</sup> The floe cracked along the starboard side of the ship, and also on the port side at a distance of about 14 paces from the ship. <sup>2</sup> 11 a. m. \* p. <sup>3</sup> p. m. Varying between ≡<sup>0</sup> and ≡. \* now and then. <sup>4</sup> Pushed the ship out of the floe and moored her to a larger one. <sup>5</sup> Between 10 a. m. and noon, moved the thermometer-screen over to the new floe athwart the fore-chains.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 12.	2	84° 32'	76° 30'	NW	3.8		-1.7	3.8	95	10	Str.		
	4	- 32	- 29	NW b N	3.4	77.2	-1.0	3.9	92	10	Cu.	E	
	6	- 32	- 27	NW b N	3.8		-1.1	3.9	93	10	Str.		
	8	- 32	- 26	NW b N	4.4	71.6	-1.3	4.0	96	10	Str.		
	10	- 32	- 25	NW b N	3.7		-1.8	3.8	96	10			≡
	Mn.	- 32	- 24	NW b N	2.6	71.6			96	10			≡
Aug. 13.	2	84 32	76 23	NW b N	2.4				96	10	Str.		
	4	- 31	- 22	NW b N	3.2	72.3			95	10	Str.		
	6	- 31	- 21	NW b N	3.8				95	10	Str.		
	8	- 31	- 19	NW b N	3.4	72.3	-1.7	3.7	93	10	Str.	E	
	10	- 31	- 18	NW b N	2.9		-1.4	3.8	92	10	Cust.	ESE	
	Noon	- 31	- 17	NW b N	4.1	72.6	-1.4	3.8	92	8°	Cicu.	SE	
	2	- 31	- 19	NW b W	2.0		-0.8	3.9	90	9°	Cicu.	SE	
	4	- 31	- 22	NW b N	3.1	73.3	-2.3	3.6	95	5°	Ci.	SSE	
	6	- 31	- 17	NW b N	2.4		-3.3	3.3	94	3°	Ci.		
	8	- 31	- 16	NW	3.2	73.3	-2.4	3.7	97	10			≡
	10	- 31	- 14	NW	2.5		-1.9	3.8	96	2°	Ci.	SSE	1
	Mn.	- 31	- 13	NW b N	3.6	73.3			94	10	Cicu.	SSE	2
Aug. 14.	2	84 30	76 12	NW	4.0				95	10	Cicu.		
	4	- 30	- 10	NW b N	4.9	73.8			95	10	Cicu.	SSE	
	6	- 30	- 9	NW b N	3.2				93	10			≡
	8	- 30	- 8	NW b N	4.3	73.7	-3.8	3.3	95	10°	Ci.	SSW	≡
	10	- 30	- 6	NW b N	3.7		-3.8	3.3	95	10			≡
	Noon	- 30	- 5	NW b N	4.6	73.8	-3.6	3.3	94	10	Ci.		≡
	2	- 30	- 4	NW	4.6		-3.3	3.3	93	10	Cist.		≡
	4	- 29	- 2	NW	5.0	74.0	-3.4	3.3	93	10	Cist.		≡
	6	- 29	- 1	NW	5.0		-3.7	3.3	94	10	Cist.		≡
	8	- 29	- 0	NW b N	4.0	73.9	-4.5	3.0	93	10	Cist.		≡
	10	- 29	75 58	NW	3.5		-4.9	2.9	93	10°	Cist.		≡
	Mn.	- 29	- 57	NW b W	3.1	73.7			93	6	Ci.		≡
Aug. 15.	2	84 29	75 56	NW	3.4				91	5	Ci.		
	4	- 29	- 54	NW	3.0	74.2			91	9°	Cist.		
	6	- 28	- 53	NW	3.2				91	2°	Ci.		
	8	- 28	- 52	NW b W	3.7	73.1	-4.4	2.9	89	2°	Ci.	SSE	
	10	- 28	- 51	NW b W	4.3		-3.8	3.1	92	2°	Ci.		3
	Noon	- 28	- 50	NW b W	3.2	72.5	-3.1	3.3	91	1°	Ci.		
	2	- 28	- 49	W b N	3.5		-3.2	3.0	85	2°			
	4.15	- 28	- 48	WNW	3.0	72.7	-3.5	3.0	88	2			
	6	- 28	- 47	WNW	2.7		-4.2	3.0	91	1			
	8	- 28	- 45	NW b W	3.4	72.3	-4.8	2.9	91	3°			
	10	- 28	- 44	NW b W	3.6		-5.5	2.7	91	10°			
	Mn.	- 28	- 43	NW b W	3.1	71.6			92	10°			
Aug. 16.	2	84 27	75 42	NW	3.5				93	2°	Ci.		≡
	4	- 27	- 41	NW	3.0	70.8			92	2	Cicu.		
	6	- 27	- 40	NW b W	2.7				86	1	Cicu.		
	8	- 27	- 39	NW b W	3.4	69.9	-3.0	2.9	87	3°	Ci.	NW	
	10.15	- 27	- 38	NW b N	3.6		-0.9	3.8	89	10°	Ci. Cist.	NW	
	Noon	- 27	- 37	NW b W	3.1	69.0	0.0	4.2	90	10°	Cist.	WNW	
	2	- 27	- 36	NW b W	2.6		0.0	4.2	90	10	Str.		*°
	4	- 26	- 35	NW	1.7	67.9	0.0	4.2	91	10	Str.		
	6	- 26	- 34	NW b W	2.0		0.0	4.3	93	10	Str.		*°
	8	- 26	- 33	NW	2.5	67.1	-0.2	4.4	96	10	Str.		
	10	- 26	- 32	NW	2.6		-0.7	4.0	93	10	Str.	NW	
	Mn.	- 26	- 31	WNW	3.4	66.0			94	10°	Ci.		

<sup>1</sup> Low ≡ over the ice. <sup>2</sup> Low ≡ over the ice. <sup>3</sup> Cirrus-belts converging towards E and W.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 17.	2	84° 26'	75° 29'	NW <sup>b</sup> N	2.6				90	10°	Str.		
	4	- 26	- 28	NW <sup>b</sup> N	3.6	764.9			89	10°	Cist.		
	6	- 26	- 27	NW	3.4				89	10	Cust.		
	8	- 25	- 26	NW	5.8	63.2	-4.0	3.2	95	10	Cist.		
	10	- 25	- 26	NW <sup>b</sup> W	4.8		-4.2	3.2	96	8	Cist.		
	Noon	- 25	- 26	WNW	3.4	61.8	-6.1	2.6	90	3°	Ci.	NW	
	2	- 25	- 28	WNW	5.3		-4.8	2.9	91	10°	Cicu.	WNW	
	4	- 25	- 30	NW <sup>b</sup> W	5.6	59.4	-4.6	2.8	89	10	Cist.		
	6	- 25	- 32	WNW	6.0		-4.6	3.1	95	10	Str.		* <sup>o</sup> d
	8	- 24	- 34	WNW	5.9	57.4	-4.4	3.0	94	10	Str.		*
	10.15	- 24	- 36	W <sup>b</sup> N	6.7		-3.0	3.3	91	10	Str.		*
	Mn.	- 24	- 38	WNW	5.4	55.0			94	10	Str.		*
Aug. 18.	2	84 23	75 40	W	5.6				95	10	Str.		* <sup>o</sup>
	4	- 23	- 42	W <sup>b</sup> S	8.2	53.0			95	10	Str.		* <sup>o</sup>
	6	- 23	- 44	W <sup>b</sup> S	6.0				99	10	Str.		*
	8	- 23	- 46	WSW	7.8	50.8	-3.9	3.1	93	10	Str.		* <sup>o</sup>
	10	- 22	- 48	SW <sup>b</sup> W	7.6		-4.1	3.1	93	10	Str.		* <sup>o</sup>
	Noon	- 22	- 50	SW	6.8	49.0	-3.8	3.3	95	10	Str.		* <sup>o</sup>
	2	- 22	- 51	W <sup>b</sup> S	6.4		-3.0	3.2	88	10	Str.		*
	4	- 22	- 53	SW	6.8	47.5	-2.2	3.4	88	10	Str.		*
	6	- 21	- 55	SW <sup>b</sup> W	6.4		-1.9	3.7	94	10	Str.		* <sup>o</sup>
	8	- 21	- 57	SW	7.5	46.1	-1.7	3.8	94	10	Str.		* <sup>o</sup>
	10	- 21	- 59	SW <sup>b</sup> S	7.7		-1.6	3.8	94	10	Str.		* <sup>1</sup>
	Mn.	- 20	76 1	SW	7.2	44.6			95	10	Str.		*
Aug. 19.	2	84 20	76 3	SW	6.2				96	10	Str.		*
	4	- 20	- 5	SW	6.7	43.7			93	10	Str.		
	6	- 20	- 7	SW <sup>b</sup> W	4.9				10°	Cist.		WSW	
	8	- 19	- 9	W <sup>b</sup> S	3.8	44.2	-0.8	4.2	98	10	Cist.		● d
	10	- 19	- 14	NW	3.4		-1.5	3.8	92	10	Str.		
	Noon	- 19	- 20	W <sup>b</sup> S	3.5	45.3	-1.2	3.8	91	10°	Cicu. Str.		
	2	- 19	- 25	W <sup>b</sup> N	6.1		-2.7	3.3	88	10	Cust.	W	
	4	- 19	- 30	W <sup>b</sup> S	5.5	47.2	-3.2	2.8	79	10	Cust.		
	6	- 19	- 35	W <sup>b</sup> S	5.2		-3.2	2.9	81	10	Str.		
	8	- 19	- 40	W <sup>b</sup> S	4.9	48.1	-4.6	2.8	87	10	Str.		
	10	- 19	- 45	W <sup>b</sup> S	3.6		-4.3	2.9	90	10	Str.		* <sup>2</sup>
	Mn.	- 18	- 50	SSW	3.2	48.7			93	10	Str.		
Aug. 20.	2	84 18	76 56	SW	5.2				92	10	Cust.		* <sup>2</sup>
	4	- 18	77 1	SW	5.3	47.7			84	10	Str.		* <sup>2</sup>
	6	- 18	- 6	SSW	4.6				90	10	Str.		* <sup>2</sup>
	8	- 18	- 11	S <sup>b</sup> W	4.3	46.0	-3.8	3.2	93	10	Str.		* <sup>2</sup>
	10	- 18	- 16	SSW	4.6		-2.8	3.4	92	10	Ci. Cust.		* <sup>2</sup>
	Noon	- 18	- 21	SW	8.2	44.6	-2.1	3.7	94	10	Cust.		* <sup>2</sup>
	2	- 17	- 25	WSW	6.7		-3.0	3.3	90	10	Str.		* <sup>2</sup>
	4	- 17	- 29	SW <sup>b</sup> W	11.0	44.8	-4.2	3.0	92	10	Str.		* <sup>2 2</sup>
	6	- 17	- 33	SW <sup>b</sup> W	11.0		-3.3	3.4	96	10	Str.		* <sup>2</sup>
	8	- 16	- 37	W	9.4	44.2	-2.2	3.7	96	10	Str.		* <sup>2</sup>
	10	- 16	- 41	W <sup>b</sup> S	8.2		-2.9	3.6	98	10	Str.		* <sup>2</sup>
	Mn.	- 16	- 45	W <sup>b</sup> S	9.5	44.2				10	Str.		* <sup>2</sup>
Aug. 21.	2	84 15	77 49	W <sup>b</sup> S	10.4	43.9				10	Str.		* <sup>2</sup>
	4	- 15	- 53	W <sup>b</sup> S	11.8	43.5				10	Str.		* <sup>2</sup>
	6	- 15	- 57	W <sup>b</sup> S	12.7					10	Str.		* <sup>2</sup>
	8	- 14	78 1	WSW	14.7	42.7	-2.2	3.9	100	10	Str.		* <sup>2 3</sup>
	10	- 14	- 5	WSW	13.0		-1.9	4.0	100	10	Str.		* <sup>2</sup>
	Noon	- 13	- 9	WSW	12.4	42.7	-1.6	4.0	98	10	Str.		* <sup>2</sup>

<sup>1</sup> Cicu. in the South. <sup>2</sup> Snow had drifted on to the instruments. The sun-screen blown down. <sup>3</sup> The instruments entirely covered with snow; cleaned them. The place of the thermometer-box was rather unfortunate in a hollow in a hummock.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 21.	2	84° 13'	78° 13'	SW	10.9		-1.2	4.1	98	10	Str.		* <sup>2 1</sup>
	4	- 13	- 17	WSW	13.8	742.9	-1.0	4.3	100	10	Str.		* <sup>2</sup>
	6	- 12	- 21	NW <sup>b</sup> W	5.9		-3.6	3.3	95	10	Cust.		2
	8	- 12	- 24	W	6.0	45.6	-4.4	3.0	91	10	Cust.	W	
	10	- 12	- 26	W <sup>b</sup> N	7.6		-3.0	2.8	76	10	Str.		3
	Mn.	- 11	- 27	W	8.3	47.0			81	10	Str.		
Aug. 22.	2	84 11	78 28	W	9.5				77	10	Str.		
	4	- 11	- 30	WSW	9.2	47.6			82	10	Str.		
	6	- 10	- 31	W <sup>b</sup> S	10.0				81	10	Str.		
	8	- 10	- 32	WSW	7.6	48.4	-4.5	2.6	82	10	Cust.		
	10	- 10	- 47	WSW	10.0		-4.6	2.6	82	7°	Ci.		
	Noon	- 9	79 9	WSW	9.2	49.1	-5.0	2.5	81	10°	Ci.		
	2	- 9	- 10	W <sup>b</sup> S	8.9		-5.1	2.6	83	10	Cust.	SW	
	4	- 9	- 9	W <sup>b</sup> S	6.6	49.7	-4.8	2.6	84	10	Str.		* <sup>2</sup>
	6	- 10	- 9	SW <sup>b</sup> W	7.0		-5.2	2.6	85	10	Str.		* <sup>2</sup>
	8	- 10	- 9	SW <sup>b</sup> W	6.6	50.7	-5.3	2.7	87	10	Str.		* <sup>2</sup>
	10	- 10	- 8	SW <sup>b</sup> W	5.7		-5.4	2.7	87	10°	Ci. Cist.	W	* <sup>2</sup>
	Mn.	- 10	- 8	SW <sup>b</sup> W	4.8	50.8			87	10	Cist.		* <sup>0</sup>
Aug. 23.	2	84 10	79 8	SSW	5.6				88	10	Cist.		*
	4	- 10	- 7	SW <sup>b</sup> S	3.6	51.9				10	Str.		
	6	- 10	- 7	S <sup>b</sup> W	4.8				87	10	Str.		
	8	- 10	- 7	SSW	5.5	52.2	-5.4	2.7	90	10	Str.		* <sup>2</sup>
	10	- 10	- 6	S	6.8		-4.8	2.7	87	10	Cust.		* <sup>2</sup>
	Noon	- 11	- 6	S <sup>b</sup> W	5.3	52.8	-4.6	2.7	84	10	Cust.	SSW	
	2	- 11	- 6	S	5.2		-4.2	2.7	81	10	Cu.		
	4	- 11	- 6	SE	7.0	53.6	-4.3	2.8	84	10	Str.		* <sup>2</sup>
	6	- 11	- 6	SE <sup>b</sup> S	6.3		-3.4	3.1	90	10	Str.		* <sup>2</sup>
	8	- 11	- 6	SE <sup>b</sup> S	6.5	53.4	-3.2	3.2	90	10	Str.		* <sup>2</sup>
	10	- 11	- 6	SE	6.6		-2.8	3.4	91	10	Str.		* <sup>2</sup>
	Mn.	- 12	- 6	WSW	5.2	54.5			88	10	Str.		* <sup>2</sup>
Aug. 24.	2	84 12	79 6	SW <sup>b</sup> S	5.6				87	10	Str.		
	4	- 12	- 6	S <sup>b</sup> E	4.0	56.4			90	10	Str.		* <sup>2</sup>
	6	- 12	- 6	SE <sup>b</sup> S	2.7				88	10	Str.		
	8	- 12	- 6	WSW	3.4	58.1	-4.3	2.8	86	10	Ci. Cust.		
	10	- 12	- 6	SW	4.2		-5.4	2.7	90	10	Cist.		
	Noon	- 13	- 6	SSE	2.5	60.6	-6.9	2.3	86	2	Cu.	SW	
	2	- 13	- 4	E <sup>b</sup> S	3.8		-5.8	2.6	88	10	Cu.	SSW	
	4	- 14	- 2	E	4.0	62.1	-3.3	3.1	88	10	Cust.		
	6	- 14	- 0	E <sup>b</sup> S	5.8		-2.6	3.4	92	10	Str.		
	8	- 14	78 58	ESE	5.6	62.5	-3.0	3.4	95	10	Cust.	E	
	10	- 15	- 57	E	5.8		-4.0	3.1	93	9	Cust.		
	Mn.	- 15	- 55	E	6.0	62.4			88	9	Cust.		
Aug. 25.	2	84 16	78 53	ESE	7.0				82				
	4	- 16	- 52	E <sup>b</sup> S	7.0	61.9			79	8	Cu.	ESE	
	6	- 16	- 50	E <sup>b</sup> S	7.2				70	9	Cust.		
	8	- 17	- 48	E <sup>b</sup> S	9.2	62.0	-1.3	3.3	79	10	Cu.	SSE	
	10	- 17	- 46	E <sup>b</sup> S	8.4		-3.2	2.7	76	10	Cu.	SSE	
	Noon	- 18	- 45	E <sup>b</sup> S	8.0	62.2	-4.1	2.5	76	3°	Ci.	SSE	
	2	- 18	- 45	E	7.0		-4.4	2.4	76	3°	Ci.		
	4	- 18	- 46	E	8.0	62.9	-5.3	2.4	78	1°	Ci.		
	6	- 18	- 43	E	7.0		-6.0	2.4	81	1°	Ci.		
	8	- 18	- 41	E	7.2	62.5	-6.6	2.4	86	2°	Ci.		
	10	- 19	- 40	E <sup>b</sup> N	6.1		-7.1	3.0	88	2°	Ci.		
	Mn.	- 19	- 39	E <sup>b</sup> N	6.2	61.6				3	Ci.		

<sup>1</sup> The snow-gauge has been in from 10 a.m. to 1 p.m. <sup>2</sup> 7 p. m. Strip of light over the horiz. from WSW over W to NE. Cu. WSW, Cust. W. <sup>3</sup> Cleaned the screen of snow, cleaned the instruments.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 26.	2	84° 19'	78° 33'	E <sup>b</sup> N	7.2					8°	Ci.		1 2
	4	- 20	- 36	E <sup>b</sup> N	7.0	760.3				4	Ci.		
	6	- 20	- 35	E <sup>b</sup> N	7.2				77	0			
	8	- 20	- 34	E <sup>b</sup> N	7.2	58.5	-6.4	2.2	80	8°	Ci.	SE	
	10	- 21	- 33	E <sup>b</sup> N	8.8		-6.5	2.3	84	10°	Ci.	SE	
	Noon	- 21	- 32	E <sup>b</sup> N	8.7	57.7	-5.1	2.7	89	10	Ci. Cust.	SE	
	2	- 21	- 30	E <sup>b</sup> N	8.4		-3.1	3.2	90	10	Str.		
	4	- 22	- 29	E	9.4	56.5	-3.4	3.1	88	10	Str.		* <sup>2</sup>
	6	- 22	- 28	E <sup>b</sup> S	9.4		-3.4	3.1	90	10°			☉ <sup>2</sup> ≡
	8	- 22	- 27	E	7.4	56.1	-3.0	3.4	94	10°			☉ <sup>2</sup> d≡
	10	- 23	- 25	E	8.8		-2.9	3.4	91	10°	Str.		☉ <sup>2</sup> d†~ <sup>3</sup>
	Mn.	- 23	- 24	E <sup>b</sup> S	6.0	56.0			94	10	Str.		
Aug. 27.	2	84 23	78 23	E <sup>b</sup> S	6.1				94	10	Str.		
	4	- 24	- 22	E <sup>b</sup> S	5.6	56.2			94	10	Str.		
	6	- 24	- 20	E <sup>b</sup> S	6.0				94	10°			≡
	8	- 24	- 19	ESE	4.2	56.2	-0.9	4.1	96	10	Str.		≡
	10	- 24	- 18	ESE	4.2		-0.6	4.1	95	10	Str.		≡
	12.30	- 25	- 16	E <sup>b</sup> S	3.4	56.1	-1.0	4.1	96	10	Str.		*≡ <sup>4</sup>
	2	- 25	- 15	SE	2.9		-0.8	4.2	97	10	Str.		
	4	- 25	- 14	SW	2.7	56.3	-1.8	3.8	94	10	Str.		
	6	- 26	- 13	SSW	2.3		-2.0	3.6	93	10	Str.		
	8	- 26	- 12	SE <sup>b</sup> S	2.3	56.2	-1.9	3.7	93	10	Str.		
	10	- 26	- 10	SW	3.4		-3.5	3.4	95	10	Str.		
	Mn.	- 27	- 9	SSW	2.6	56.4			90	8	Cust.		
Aug. 28.	2	84 27	78 8	S	2.0				90	10	Cust.	WSW	
	4	- 27	- 7	SE <sup>b</sup> S	2.7	56.7			95	10	Cicu. Str.	S	
	6	- 28	- 6	SE <sup>b</sup> S	2.2				93	9	Str.		
	8	- 28	- 4	S	2.6	57.0	-3.2	3.3	93	10	Ci. Cust.	W	
	10	- 28	- 3	WSW	4.7		-2.8	3.3	90	10	Str.		
	Noon	- 29	- 2	SW	3.0	57.8	-2.6	3.4	92	10	Ci. Cust.	SW	
	2	- 29	- 1	S	3.0		-1.9	3.7	92	10	Cust.	SW	
	4	- 29	77 59	SW	4.2	58.7	-2.5	3.2	86	10	Str.		
	6	- 30	- 58	SSE	4.7		-3.5	2.8	82	10	Str.		
	8	- 30	- 57	SE <sup>b</sup> S	5.6	59.5	-5.1	2.8	90	10	Str.		
	10	- 30	- 56	SE	5.2		-6.1	2.6	94	10	Str.		* <sup>o</sup>
	Mn.	- 31	- 54	SE <sup>b</sup> S	7.8	59.9			93	10			* <sup>o</sup> ≡
Aug. 29.	2	84 31	77 53	SE <sup>b</sup> E	5.7				93	10	Str.		
	4	- 31	- 52	SE <sup>b</sup> E	5.2	59.6			94	10	Str.		
	6	- 32	- 51	ESE	6.8				95	10	Str.		
	8	- 32	- 49	E <sup>b</sup> S	7.5	59.3	-4.5	2.9	91	10	Str.		
	10	- 32	- 48	E <sup>b</sup> S	7.0		-4.0	2.9	87	10	Str.		
	Noon	- 33	- 47	E <sup>b</sup> S	6.4	58.8	-3.8	3.0	88	10	Str.		
	2.15	- 33	- 46	E	6.8		-4.1	3.0	92	10	Str.		*
	4	- 33	- 44	E	7.7	58.1	-4.8	2.9	91	10	Str.		
	6	- 34	- 43	E	7.1		-5.7	2.6	88	10	Cust.		
	8	- 34	- 42	E	7.4	57.6	-6.6	2.5	89	10	Cust.		
	10	- 34	- 41	E <sup>b</sup> S	6.2		-6.8	2.5	92	10	Ci. Cust.		
	Mn.	- 35	- 40	E	5.6	56.9			94	10	Str.		
Aug. 30.	2	84 35	77 38	E	5.5				93	10	Str.		2
	4	- 35	- 37	E	6.6	56.2				10	Str.		
	6	- 36	- 36	ESE	5.2				96	10	Str.		
	8	- 36	- 35	ESE	5.5	55.7	-3.3	3.3	91	10	Str.		
	10	- 36	- 33	ESE	5.4		-2.8	3.6	96	10	Str.		1
	Noon	- 36	- 32	ESE	4.7	56.2	-2.4	3.7	97	10	Str.		1

<sup>1</sup> Cirrus-belts converging towards ESE and WNW. <sup>2</sup> No access to the screen, except by alternately pulling and rowing the small boat. <sup>3</sup> Thin † on the instruments. <sup>4</sup> Moved the screen from the ice on board, where it was carefully lashed to the hind part of the bowsprit, so that the height above sea-level is 5.8 metres, the readings can be made from the fore-castle.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 30.	2	84° 37'	77° 31'	ESE	4.4		-1.7	3.7	93	10	Cicu. Cust	ESE	*°
	4	- 37	- 30	EbS	4.6	756.6	-1.8	3.8	94	10	Str.		*°
	6	- 37	- 28	EbS	4.4		-2.1	3.8	98	10	Str.		*°
	8	- 38	- 27	EbS	4.9	56.7	-2.8	3.6	96	10	Str.		*°
	10	- 38	- 26	EbS	3.7		-2.8	3.5	94	10	Str.		*°
	Mn.	- 38	- 25	ESE	3.3	56.9			93	10	Str.		*°
Aug. 31.	2	84 39	77 23	ESE	4.5				94	10	Str.		*
	4	- 39	- 22	SEbE	3.8	56.5			95	10	Str.		≡
	6	- 39	- 21	ESE	4.0				96	10			1
	8	- 40	- 20	SE	2.6	56.4	-3.0	3.5	97	5°	Cicu.	SW	2
	10	- 40	- 18	SEbE	2.6		-3.6	3.3	95	9°			3
	Noon	- 40	- 17	EbS	5.6	55.2	-2.4	3.7	96	10	Str.		4
	2	- 41	- 16	EbS	5.5		-2.4	3.5	93	10	Str.		5
	4	- 41	- 15	EbS	6.6	53.0	-2.2	3.6	91	10	Str.		6
	6	- 41	- 14	EbS	7.0		-2.2	3.6	91	10	Str.		7
	8	- 42	- 12	ESE	7.2	49.9	-0.1	4.3	95	10	Str.		8
	10	- 42	- 11	SEbE	6.5		0.1	4.4	97	10	Str.		9
	Mn.	- 42	- 10	SEbE	5.8	48.5			97	10	Str.		10
Sept. 1.	2	84 43	77 9	SEbS	4.4				97	10	Str.		11
	4	- 43	- 7	SEbS	5.6	48.6			96	10	Str.		12
	6	- 43	- 6	SEbS	6.0				96	10	Str.		13
	8	- 44	- 5	SEbE	5.2	48.3	-0.2	4.4	98	10	Str.		14
	10	- 44	- 4	EbS	6.5		0.1	4.5	98	10	Str.		15
	Noon	- 44	- 2	SEbE	8.2	45.1	0.5	4.6	97	10	Str.		16
	2	- 45	- 1	SSE	7.7		0.8	4.7	97	10	Str.		17
	4	- 45	- 0	SSE	8.2	45.0	0.6	4.6	67	10	Str.		18
	6	- 45	76 59	SbE	7.9		0.4	4.5	97	10	Str.		19
	8	- 46	- 57	SWbS	6.8	46.0	0.3	4.4	94	10°	Ci. Cist.		20
	10	- 46	- 56	WSW	11.0		0.2	4.4	94	10	Str.		21
	Mn.	- 46	- 55	WSW	12.5	49.5			94	10	Cust.		22
Sept. 2.	2	84 47	76 54	WSW	11.4				93	10	Str.		23
	4	- 47	- 52	WSW	12.9	54.2			93	10	Str.		24
	6	- 47	- 51	WSW	10.8				85	10	Str.		25
	8	- 48	- 50	W	8.8	58.3	-2.9	3.3	89	10	Cust.		26
	10	- 48	- 54	SW	6.6		-2.2	3.3	85	0			27
	Noon	- 48	- 59	SW	5.7	59.9	-2.4	3.2	83	0			28
	2	- 48	77 2	SWbS	5.0		-2.3	3.1	82	0			29
	4	- 48	- 6	SbW	4.2	61.3	-2.4	3.3	85	1	Cicu.		30
	6	- 48	- 7	SbE	6.1		-3.8	3.1	91	1°	Ci.		31
	8	- 48	- 9	SbE	6.6	61.7	-3.6	3.2	91	10	Cist.		32
	10	- 48	- 11	SbE	5.5		-3.3	3.2	89	10	Str.		33
Sept. 3.	Mn.	- 49	- 12	SEbS	3.2	60.8			93	10	Str.		34
	2	84 49	77 14	SEbS	4.5				96	10	Str.		35
	4	- 49	- 15	SEbS	4.7	59.6			96	9	Cist.		36
	6	- 50	- 17	SE	6.3				97	10	Str.		37
	8	- 50	- 18	SEbE	5.8	58.0	0.3	4.5	96	10	Str.		38
	10	- 50	- 20	SEbE	8.3		0.7	4.4	90	10	Str.		39
	Noon	- 51	- 21	SEbE	10.3	54.5	0.3	4.3	93	10	Str.		40
	2	- 51	- 23	SEbE	7.8		0.2	4.5	97	10	Str.		41
	4	- 51	- 25	SEbE	7.4	51.4	0.2	4.6	98	10	Str.		42
	6	- 51	- 26	SEbS	5.3		0.0	4.5	98	10	Str.		43
	8	- 52	- 28	SSW	4.4	49.8	0.0	4.5	98	10	Cust.		44
	10	- 52	- 29	SWbS	4.3		0.1	4.5	98	10	Str.		45
	Mn.	- 52	- 31	SWbW	5.6	49.9			96	10	Str.		46

<sup>1</sup> Low ≡. <sup>2</sup> ⌞ on the instruments. <sup>3</sup> 9 a. m. ☉. <sup>4</sup> a. m. ☉ with q°. <sup>5</sup> 1 p. m. ☉.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 4.	2	84° 53'	77° 32'	SW	6.6				96	10	Str.		
	4	- 53	- 34	WSW	6.2	750.8			92	10	Str.		
	6	- 53	- 35	SW <sup>b</sup> W	8.7				89	10	Str.		
	8	- 53	- 37	WSW	9.9	51.6	-2.5	3.2	84	10	Cust.	WSW	<sup>1</sup>
	10	- 54	- 38	W	8.4		-2.0	3.1	81	10	Cust.		
	Noon	- 54	- 40	W <sup>b</sup> S	7.3	51.9	-2.6	3.2	85	10	Cust.	W	* <sup>o</sup>
	2	- 54	- 39	WSW	10.0		-3.3	3.2	89	10	Cust.	WSW	
	4	- 54	- 38	SW	8.2	51.6	-2.5	3.5	92	10	Cust.	SW	
	6	- 54	- 44	WSW	10.0		-2.4	3.3	88	10	Str.		
	8	- 53	- 48	WSW	8.1	50.5	-3.0	3.2	87	10	Cust.		
	10	- 53	- 53	WSW	8.0		-3.5	3.1	89	10	Str.		
	Mn.	- 53	- 58	W <sup>b</sup> S	7.0	50.3			89	10	Str.		
Sept. 5.	2	84 53	78 3	W	10.2				86	10	Str.		* <sup>2</sup>
	4	- 53	- 7	W <sup>b</sup> S	9.3	51.0			88	10	Str.		
	6	- 52	- 12	W <sup>b</sup> S	8.7				81	8	Cust.		
	8	- 52	- 17	W	8.0	51.2	-3.7	2.9	87	10	Str.		<sup>3</sup>
	10	- 52	- 21	WSW	10.0		-4.6	2.8	89	10	Cust.		* <sup>o</sup>
	Noon	- 52	- 26	WSW	6.1	51.5	-5.9	2.7	93	0			<sup>4</sup>
	2.30	- 52	- 32	SW	3.8		-5.5	2.6	86	0			
	4	- 52	- 34	SW	3.1	51.2	-6.0	2.4	86	0			<sup>5</sup>
	6	- 52	- 35	SW	3.5		-6.6	2.4	86	0			
	8	- 52	- 36	W	3.1	51.2	-7.3	2.5	94	10			<sup>6</sup>
	10	- 52	- 37	WSW	2.8		-9.1	2.0	90	10	Ci. Cust.	W	
	Mn.	- 52	- 38	SW <sup>b</sup> W	3.8	51.9			91	10	Str.		
Sept. 6.	2	84 52	78 39	WSW	4.0				90	10	Str.		
	4	- 52	- 40	WSW	4.0	51.7			92	9	Str.		
	6	- 52	- 41	SW <sup>b</sup> S	4.2				92	10	Str.		
	8	- 53	- 42	SSW	3.9	51.6	-4.5	2.9	90	10	Str.		<sup>7</sup>
	10	- 53	- 43	SW <sup>b</sup> S	3.0		-4.6	2.8	88	10	Cust.	W	
	12.30	- 53	- 44		0	51.0	-4.4	2.9	89	5 <sup>o</sup>	Cicu.	WNW	<sup>8</sup>
	2	- 53	- 45		0		-3.5	2.8	81	8 <sup>o</sup>	Cicu.	W	
	4	- 53	- 45	SE	0.0	50.7	-5.8	2.5	85	5 <sup>o</sup>	Cicu.	ENE	
	6	- 53	- 45	ESE	1.8		-4.8	2.6	81	9	Cust.	ENE	
	8	- 53	- 44	ENE	0.0	50.5	-4.4	2.7	81	10	Cust.		
	10	- 53	- 44	NW <sup>b</sup> N	3.4		-5.8	2.5	85	10	Str.		<sup>9</sup>
	Mn.	- 53	- 43	W <sup>b</sup> S	4.3	52.2			92	10	Str.		
Sept. 7.	2	84 53	78 43	W <sup>b</sup> S	6.0				93	10	Str.		
	4	- 53	- 43	W <sup>b</sup> S	5.3	53.4			81	10	Str.		
	6	- 53	- 42	WSW	5.7				89	10	Str.		
	8	- 54	- 42	WSW	7.0	54.9	-7.3	2.2	86	10	Ci. Cust.	WSW	<sup>10</sup>
	10	- 54	- 42	WSW	8.2		-7.8	2.3	91	10	Cust.		<sup>11</sup>
	Noon	- 54	- 41	WSW	9.3	56.5	-6.8	2.5	92	10	Cust.		
	2	- 54	- 41	WSW	7.6		-6.4	2.6	93	10	Cist.		
	4	- 54	- 41	WSW	9.4	57.6	-5.8	2.6	91	10	Str.		
	6	- 54	- 40	WSW	9.3		-4.8	2.9	92	10	Str.		
	8	- 54	- 40	WSW	9.1	58.5	-4.4	3.0	91	10	Str.		
	10	- 54	- 40	W	7.2		-6.3	2.5	89	3 <sup>o</sup>	Cicu.	W	
	Mn.	- 54	- 39	W	8.3	60.0			88	5	Str.		
Sept. 8.	2	84 54	78 39	W <sup>b</sup> S	5.0				92				
	4	- 55	- 38	W	5.7	61.2			89	0			
	6	- 55	- 38	W	5.3				89	0			

<sup>1</sup> Blue sky between ESE and SE. <sup>2</sup> 1 a. m. \*<sup>2</sup>. <sup>3</sup> Blue sky in WNW, elsewhere dark sky on the horiz. thence through N to ESE. <sup>4</sup> Cust. round the horiz. <sup>5</sup> Some ci. over the horiz. from SSW to WSW. <sup>6</sup> Precipitation on the instruments. <sup>7</sup> Blue sky in WNW. <sup>8</sup> Dark bank on the horiz. between ENE and NNW. <sup>9</sup> Tolerably uniform blue sky all round the horiz. except between WNW and N. <sup>10</sup> Driving snow from the ground. <sup>11</sup> Driving snow from the ground.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 8.	8	84°55'	78° 38'	W	5.0	762.3	- 8.9	2.0	88	0			1
	10	- 55	- 37	W	4.5		- 8.4	2.0	85	0			
	Noon	- 55	- 37	W	4.4	63.0	- 8.0	2.0	84	0			
	2	- 55	- 37	WSW	4.4		- 9.0	2.0	92	10			
	4	- 55	- 36	WSW	4.0	63.9	- 9.1	2.0	89	1°			
	6	- 55	- 36	WSW	3.6		- 9.7	1.8	85	3°			
	8	- 55	- 36	WSW	3.2	64.1	-10.4	1.7	83	3°			
	10	- 55	- 35	WSW	2.1		-10.9	1.6	82	5°			
	Mn.	- 56	- 35	W <sup>b</sup> S	2.5	64.2			85	5°			
Sept. 9.	2	84 56	78 35	WSW	2.7				85	3°	Ci.		2
	4	- 56	- 34		0	63.9			89	2°	Ci.		
	6	- 56	- 34		0				87	6	Cicu.		
	8	- 56	- 33	NE <sup>b</sup> E	2.9	64.5	- 9.0	2.0	89	9	Cicu. à Cu.	WSW	
	10	- 56	- 33	ENE	3.1		- 8.0	2.2	89	9	Cu.	WNW	
	Noon	- 56	- 33	E <sup>b</sup> N	3.5		- 8.2	2.1	88	10	Cust.	W	
	2	- 56	- 32	E <sup>b</sup> N	3.4		- 8.3	2.2	90	10°	Cicu. Cist.		
	4	- 56	- 32	ENE	3.6	65.3	- 7.6	2.2	89	10	Cist.		
	6	- 57	- 32	ENE	4.2		- 7.2	2.3	89	10	Cist.		
	8	- 57	- 31	ENE	4.3	65.2	- 7.2	2.3	89	10	Cist.		
	10	- 57	- 31	E <sup>b</sup> N	4.3		- 6.9	2.3	87	10	Str.		
	Mn.	- 57	- 31	E <sup>b</sup> N	3.7	65.1			87	10	Str.		
Sept. 10.	2	84 57	78 30	E <sup>b</sup> N	4.0				86	10	Str.		3
	4	- 57	- 30	ENE	3.8	65.1			89	10	Str.		
	6	- 57	- 30	ENE	4.6				88	10	Str.		
	8	- 57	- 29	NE <sup>b</sup> E	4.9	64.9	- 6.0	2.6	89	10	Str.		
	10	- 57	- 29	NE <sup>b</sup> E	5.7		- 6.0	2.6	89	10	Str.		
	Noon	- 57	- 28	NE <sup>b</sup> E	4.7	64.9	- 5.8	2.6	89	10	Str.		
	2	- 58	- 28	NE <sup>b</sup> E	4.6		- 5.5	2.7	89	10	Str.		
	4	- 58	- 28	NE <sup>b</sup> E	5.7	65.6	- 5.6	2.6	88	10	Str.		
	6	- 58	- 27	NE <sup>b</sup> E	5.2		- 5.8	2.6	88	10	Str.		
	8	- 58	- 27	NE <sup>b</sup> E	4.8	65.5	- 6.2	2.5	88	10	Str.		
	10	- 58	- 27	ENE	4.6		- 6.8	2.3	87	10	Str.		
	Mn.	- 58	- 26	ENE	5.2	65.8			86	10	Str.		
Sept. 11.	2	84 58	78 26	E	5.0				86	8	Cust.		5
	4	- 58	- 26	E	4.9	66.0			87	10	Str.		
	6	- 58	- 25	E	4.8				88	9	Cust.		
	8	- 58	- 25	E <sup>b</sup> S	3.6	65.7	- 6.0	2.6	89	10	Cu.	NNE	
	10	- 59	- 25	E <sup>b</sup> S	4.3		- 5.6	2.7	89	10	Cust.		
	Noon	- 59	- 24	SE <sup>b</sup> E	5.2	65.0	- 5.0	2.6	85	10	Cust.		
	2	- 59	- 24	ESE	4.6		- 5.2	2.5	83	9	Cicu. à Cu.		
	4	- 59	- 24	ESE	5.9	64.9	- 5.6	2.5	84	10	Ci. Cust.		
	6	- 59	- 24	SE <sup>b</sup> E	5.5		- 6.8	2.3	85	5	Cust. Cicu	NNE	
	8	- 59	- 25	SE <sup>b</sup> E	7.0	63.9	- 5.2	2.8	92	10	Str.		
Sept. 12.	10	- 59	- 26	SE	5.5		- 4.6	2.9	91	10	Str.		6
	Mn.	- 59	- 26	SE	8.0	62.8			94	10	Str.		
	2	85 0	78 27	SE	6.7				91	10	Str.		
	4	- 0	- 27	SE	6.8	61.4			88	10	Str.		
	6	- 0	- 28	SE	7.2				91	10	Str.		
	8	- 0	- 28	SE	8.1	59.3	- 4.9	2.8	90	10	Str.		
	10	- 0	- 29	SE	7.4		- 4.8	2.9	90	10	Str.		
	Noon	- 0	- 29	SE	7.4	57.5	- 4.5	3.1	95	10	Str.		
	2	- 1	- 30	SE	7.2		- 3.9	3.2	95	10	Str.		*°
	4	- 1	- 30	SE	7.4	54.9	- 3.4	3.3	94	10	Str.		

<sup>1</sup> A few solitary ci. over the horiz. in WNW. <sup>2</sup> — on the instruments. <sup>3</sup> Clearing over the horiz. from NE to WNW and from S to SE. <sup>4</sup> 2 mock-suns down at the horiz. <sup>5</sup> 1 a.m. 2 mock-suns down at the horiz. 2 a.m. 2 golden patches. <sup>6</sup> Blue sky between W and SE.



1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 12.	6	85° 1'	78° 31'	SE	6.7		-2.9	3.4	95	10	Str.		*°
	8	- 1	- 31	SE <sup>b</sup> E	6.4	75.9	-2.0	3.8	96	10	Str.		°
	10	- 1	- 32	SE <sup>b</sup> E	4.0		-1.0	4.2	98	10	Str.		° d
	Mn.	- 2	- 32	SE <sup>b</sup> S	3.6	48.9			97	10	Str.		≡
Sept. 13.	2	85 2	78 33	SSE	4.2				96	10	Str.		° d ≡
	4	- 2	- 33	S	4.5	47.4			96	10	Str.		° d ≡
	6	- 2	- 34	S	4.3				97	10	Str.		≡
	8	- 2	- 34	S <sup>b</sup> E	4.9	46.0	0.0	4.5	98	10	Str.		° d ≡
	10	- 2	- 35	S <sup>b</sup> E	3.6		0.1	4.5	98	10	Str.		° d ≡
	Noon	- 3	- 35	S	5.0	45.6	-0.1	4.5	98	10	Str.		° d ≡
	2	- 3	- 36	S <sup>b</sup> W	3.9		-0.3	4.4	98	10	Str.		° d ≡
	4	- 3	- 36	S <sup>b</sup> W	4.2	45.6	-0.4	4.4	98	10	Str.		° d ≡
	6	- 3	- 37	S	2.9		-0.4	4.4	98	10	Str.		° d ≡
	8	- 3	- 37	SSW	3.0	45.6	-0.2	4.4	97	10	Str.		≡ <sup>1</sup>
	10	- 3	- 38	SW	2.6		-0.2	4.4	97	10	Str.		°
	Mn.	- 4	- 38	W	2.6	45.8			95	10	Str.		* ≡
Sept. 14.	2	85 4	78 39	WNW	2.6				95	10	Str.		*
	4	- 4	- 39	W <sup>b</sup> N	5.4	46.5			94	10	Str.		* <sup>2</sup>
	6	- 4	- 40	W <sup>b</sup> N	5.9				90	10	Str.		*°
	8	- 4	- 40	W <sup>b</sup> S	6.5	47.0	-6.0	2.6	90	10	Str.		*°
	10	- 5	- 41	WSW	6.9		-5.9	2.6	90	10	Str.		
	Noon	- 5	- 41	WSW	7.7	47.6	-6.2	2.5	88	10	Str.		
	2	- 5	- 42	SW <sup>b</sup> S	5.9		-6.2	2.5	88	10	Str.		
	4	- 5	- 42	SW <sup>b</sup> S	6.3	47.4	-6.0	2.5	87	10	Str.		
	6	- 5	- 43	SSW	4.9		-5.8	2.6	87	10	Str.		
	8	- 5	- 43	WSW	6.6	46.9	-4.6	3.0	92	10	Str.		
	10	- 6	- 44	W	7.4		-4.0	3.1	94	10	Str.		* <sup>2</sup>
	Mn.	- 6	- 44	W	8.1	47.4			90	10	Str.		
Sept. 15.	2	85 6	78 45	W <sup>b</sup> N	9.9				82	10	Str.		*
	4	- 6	- 45	W <sup>b</sup> N	9.4	49.0			82	10	Str.		
	6	- 6	- 46	W <sup>b</sup> N	7.0				87	10	Str.		
	8	- 6	- 46	SW <sup>b</sup> W	4.7	49.8	-6.7	2.5	92	10	Str.		* <sup>2</sup>
	10	- 7	- 47	WSW	7.5		-5.0	2.8	91	10	Str.		
	Noon	- 7	- 48	WSW	9.0	49.8	-5.2	2.7	87	10	Str.		<sup>3</sup>
	2	- 7	- 49	SW <sup>b</sup> W	7.9		-5.1	2.6	86	10	Str.		
	4	- 7	- 50	SW	6.2	49.0	-5.2	2.6	86	10	Str.		
	6	- 7	- 51	SSW	7.2		-5.5	2.6	87	10	Str.		*°
	8	- 7	- 53	S <sup>b</sup> W	6.6	46.9	-5.9	2.6	89	10	Str.		*°
	10	- 7	- 54	S	4.9		-5.6	2.7	90	10°	Cicu. Cist.	WSW	*°
	Mn.	- 7	- 55	S	5.1	44.3			93	10	Str.		*°
Sept. 16.	2	85 7	78 56	S	4.8				94	10	Str.		*°
	4	- 7	- 57	S	5.4	42.4			95	10	Str.		°
	6	- 7	- 58	S	4.2				94	10	Str.		*°
	8	- 8	79 0	S <sup>b</sup> E	3.4	40.3	-3.7	3.3	96	10°	Cicu. Str.		*°
	10	- 8	- 1	SSW	1.5		-3.3	3.3	96	10	Cust.	SSW	*° ≡
	Noon	- 7	- 2	SW	2.2	39.3	-3.8	3.3	95	10	Cust.	SSW	*
	2	- 7	- 3	WSW	1.9		-3.0	3.5	97	10	Cicu. Cist.	WSW	
	4	- 7	- 5	WSW	2.4	38.9	-4.0	3.1	94	10	Cicu. Cist.		*°
	6	- 6	- 6	W	3.5		-4.3	3.1	93	10	Cicu. Cist.		*°
	8	- 6	- 7	WNW	4.8	38.6	-5.6	2.7	90	10	Str.		
	10	- 5	- 8	NW <sup>b</sup> W	5.7		-7.2	2.3	89	10	Str.		<sup>4</sup>
	Mn.	- 5	- 10	NW <sup>b</sup> W	5.9	38.7			88	10	Str.		
Sept. 17.	2	85 5	79 11	W <sup>b</sup> N	7.0				85	10	Str.		*°
	4	- 4	- 12	W <sup>b</sup> N	6.6	38.8			80	10	Str.		*°
	6	- 4	- 14	WNW	6.8				82	10	Str.		* <sup>2</sup>

<sup>1</sup> 9.30 °. <sup>2</sup> — on the instruments. <sup>3</sup> Blue sky along the horiz. between WSW and ESE over SSW.<sup>4</sup> Blue sky in WSW and E.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 17.	8	85° 4'	79° 15'	NW <sup>b</sup> W	6.8	739.5	-12.6	1.4	81	4	Cicu.	N	
	10	- 3	- 16	NW <sup>b</sup> W	4.4		-13.9	1.2	80	2	Cicu.		
	Noon	- 3	- 18	W	5.4	40.1	-14.3	1.2	81	10	Cist.		
	2	- 3	- 19	W <sup>b</sup> S	3.0		-13.4	1.3	81	10	Cust.	WNW	
	4	- 3	- 20	SW	2.4	39.9	-13.0	1.3	80	10	Ci. Cust.	NE	
	6	- 3	- 21	SW	0.0		-13.0	1.3	80	10	Str.		
	8	- 3	- 23	ESE	2.1	39.1	-12.3	1.4	82	10	Str.		
	10	- 3	- 24	ESE	2.7		-11.3	1.5	82	10	Str.		1
	Mn.	- 3	- 25	E	3.6	38.6			84	10	Str.		
Sept. 18.	2	85 3	79 27	E	4.0				86	9	Str.		
	4	- 3	- 28	E	3.1	39.1			83	10	Str.		
	6	- 3	- 29	NNE	5.6				82	9	Str.		
	8	- 3	- 30	N	4.1	40.1	- 8.1	2.1	85	10	Str.		
	10	- 3	- 32	NW <sup>b</sup> N	6.0		- 8.8	1.9	86	10	Str.		
	Noon	- 3	- 33	NNW	7.0	41.9	- 9.2	1.8	82	10	Str.		*°
	2	- 3	- 34	NW <sup>b</sup> N	5.4		- 9.3	1.9	83	10	Str.		*°
	4	- 3	- 36	NW	6.0	43.8	- 9.1	1.9	85	10°	Str.		*°
	6	- 3	- 37	NW <sup>b</sup> W	5.5		- 9.9	1.8	86	10	Str.		*°
	8	- 3	- 38	WNW	4.9	45.3	-12.3	1.4	82	10	Cust.	WNW	2
	10	- 3	- 38	NW <sup>b</sup> W	4.2		-13.6	1.3	83	3	Cicu.	NW	
	Mn.	- 3	- 39	W	5.6	46.3			83	10°	Cicu.	W	
Sept. 19.	2	85 3	79 40	WSW	5.4				82	10°	Cist.		
	4	- 3	- 41	W	6.0	46.5			81	10	Str.		
	6	- 3	- 42	WSW	6.5				82	10	Str.		*°
	8	- 3	- 42	WSW	6.6	45.8	-10.6	1.6	84	10	Str.		*°
	10	- 3	- 43	WSW	6.9		-10.2	1.7	84	10	Str.		*°
	Noon	- 3	- 44	W <sup>b</sup> S	6.0	46.3	- 9.4	1.8	85	10	Str.		*°
	2	- 3	- 45	W <sup>b</sup> S	4.8		- 8.9	2.9	91	10	Str.		
	4	- 3	- 45	WSW	4.7	47.0	- 8.1	2.1	89	10	Str.		≡
	6	- 3	- 46	WSW	4.1		- 8.5	2.2	90	10	Str.		— ≡
	8	- 3	- 47	W <sup>b</sup> S	2.2	47.9	- 9.5	2.0	91	10	Str.		
	10	- 3	- 48	NNW	3.5		- 9.6	1.9	91	10	Str.		
	Mn.	- 3	- 49	WNW	2.4	49.5			89	10	Str.		*°
Sept. 20.	2	85 3	79 49	NW	4.2				89	10	Str.		
	4	- 3	- 50	NNW	3.3	50.5			90	10	Str.		*°
	6	- 3	- 51	NNW	3.0				88	10	Str.		*°
	8	- 3	- 52	N	3.3	52.3	-10.7	1.9	89	10	Str.		*°
	10	- 3	- 52	N	3.0		- 9.6	1.9	89	10	Str.		*°
	Noon	- 3	- 53	N	4.2	53.3	-10.1	1.8	88	10	Str.		*°
	2	- 3	- 54	N <sup>b</sup> E	2.7		-10.5	1.7	88	7°	Cicu.		
	4	- 3	- 55	ENE	2.4	54.7	-11.6	1.6	88	10°	Cicu.		
	6	- 3	- 55	ENE	3.4		-10.2	1.6	75	10	Str.		*°
	8	- 3	- 56	NE	3.2	55.4	-10.0	1.7	84	10	Str.		*°
	10	- 3	- 57	E	2.5		-10.7	1.6	82	10	Str.		*°
	Mn.	- 4	- 57	ESE	1.9	56.0			75	10	Str.		*°
Sept. 21.	2	85 4	79 58	ESE	1.6				78	10	Str.		*°
	4	- 4	- 59		0	56.3			79	10	Str.		*°
	6	- 4	80 0		0				80	10	Str.		
	8	- 4	- 0	W	2.4	56.6	-11.3	1.5	82	10	Str.		
	10	- 4	- 1	W	3.1		-11.2	1.6	81	10	Cust.	NNE	
	Noon	- 5	- 2	W	2.9	56.9	-11.2	1.6	81	10	Cust.		
	2	- 5	- 2	W <sup>b</sup> S	3.3		-10.8	1.7	85	10	Str.		
	4	- 5	- 3	W <sup>b</sup> S	4.2	56.8	-10.4	1.7	86	10	Str.		
	6	- 5	- 4	W <sup>b</sup> S	3.3		-10.2	1.8	88	10	Str.		

<sup>1</sup> Blue sky from WSW to E over S. <sup>2</sup> Clear over the horiz. in WNW. <sup>3</sup> Clear over the horiz. in WNW.

<sup>3</sup> Clear over the horiz. in WNW.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 21.	8	85° 5'	80° 4'	W b S	2.6	756.6	-9.3	2.1	94	10	Str.		☐
	10	- 5	- 5	NW	2.2		-9.5	2.0	91	10			☐
	Mn.	- 5	- 5	NNE	4.0	56.6			93	10	Str.		☐
Sept. 22.	2	85 5	80 4	NE b E	3.0				94	10	Str.		☐
	4	- 5	- 2	NE b E	3.1	57.1			92	10			☐
	6	- 5	- 1	ENE	2.0				89	10			☐
	8	- 5	- 0	NE b E	2.0	57.5	-17.1	1.0	86	3°	Ci.		☐
	10	- 5	79 59	NE b E	2.2		-18.8	0.8	84	0			☐
	Noon	- 5	- 57	E	2.1	57.8	-21.1	0.6	83	0			☐
	2	- 6	- 56	E			-21.0	0.7	82	0			☐
	4	- 6	- 55	E b S	1.8	58.1	-21.2	0.6	82	3°	Ci.		☐
	6	- 6	- 53	E	1.4		-21.7	0.7	82	1°	Ci.		☐
	8	- 7	- 52	ESE	1.6	58.0	-22.7	0.6	82	2°	Ci.		☐
	10	- 7	- 51		0		-21.5	0.7	82	2°	Ci.		☐
	Mn.	- 7	- 49	WSW	0.0	57.5			82	9	Cist.		☐
Sept. 23.	2	85 7	79 47	SSE	1.6				84	10	Str.		☐
	4	- 7	- 44	WSW	2.8	56.6			87	8	Cist.		☐
	6	- 7	- 42	WSW	2.2				87	10	Str.		☐
	8	- 7	- 40	WSW	3.6	55.4	-13.5	1.4	90	10	Str.		☐
	10	- 7	- 38	SW	3.5		-12.2	1.5	89	10	Str.		☐
	Noon	- 7	- 36	W b S	3.4	54.1	-10.7	1.8	91	10	Str.		☐
	2	- 7	- 34	N	4.1		-8.6	2.2	94	10	Str.		☐
	4	- 7	- 32	N b E	3.6	54.1	-11.5	1.7	94	10	Str.		☐
	6	- 7	- 30	NNE	4.0		-17.6	1.0	92	2°	Ci.		☐
	8	- 7	- 27	NNE	3.6	53.9	-19.3	0.8	85	10	Str.		☐
	10	- 7	- 25	N b E	3.8		-21.7	0.7	84	0			☐
	Mn.	- 7	- 23	N b E	2.8	53.7			84	10°	Ci.		☐
Sept. 24.	2	85 7	79 21	N b E	3.6				83	0			☐
	4	- 7	- 19	NNE	2.9	54.0			82	8	Cicu.		☐
	6	- 7	- 17	N b E	4.2				83	10	Str.		☐
	8	- 7	- 15	N	3.2	54.7	-20.9	0.7	83	10	Str.		☐
	10	- 7	- 13	N	4.4		-21.1	0.7	83	10	Str.		☐
	Noon	- 7	- 11	N b W	3.3	55.8	-21.4	0.7	83	10	Cist.		☐
	2.15	- 7	- 8	NNE	3.2		-22.6	0.6	82	0			☐
	4	- 7	- 6	NNE	3.6	57.4	-23.1	0.6	82	10	Cist.		☐
	6	- 7	- 4	N b E	2.9		-22.2	0.6	82	10	Cist.		☐
	8	- 7	- 2	N	3.0	58.6	-21.5	0.7	83	10	Str.		☐
	10	- 7	- 0	N b W	3.2		-22.3	0.6	82	10°	Cist.		☐
	Mn.	- 7	- 1	NW	2.8	59.6			81	10°	Cist.		☐
Sept. 25.	2	85 7	79 2	NW	2.5				81	10	Cist.		☐
	4	- 7	- 3	NW b N	2.2	60.5			83	10	Cust.	NNW	☐
	6	- 7	- 4	NW	1.8				83	6	Ci.		☐
	8	- 7	- 5	NW b W	2.8	60.8	-21.3	0.7	84	10	Str.		☐
	10	- 7	- 6	NW b N	3.0		-20.3	0.7	83	10	Cist.		☐
	Noon	- 7	- 6	WNW	3.0	61.3	-19.7	0.8	84	10	Str.		☐
	2	- 7	- 7	W b N	3.5		-16.7	1.1	83	10	Str.		☐
	4	- 7	- 8	NW b W	4.2	61.7	-16.4	1.1	88	10	Str.		☐
	6	- 7	- 9	NW	4.0		-15.7	1.2	89	10	Cist.		☐
	8	- 7	- 10	NW	3.3	61.6	-15.4	1.2	89	10	Str.		☐
	10	- 7	- 11	W b N	3.2		-16.3	1.1	88	10	Str.		☐
	Mn.	- 7	- 12	WNW	4.8	61.5			87	10	Str.		☐
Sept. 26.	2	85 7	79 13	WNW	3.3				87	10°	Cist.		☐
	4	- 7	- 14	W	1.9	62.0			86	8	Str.		☐
	6	- 7	- 15	W	3.4				88	10°	Str.		☐

<sup>1</sup> ☐ on the instruments. <sup>2</sup> Light ☐ on the horiz. <sup>3</sup> Blue sky over the horiz. from ENE-S. <sup>4</sup> Blue sky between ESE and SSE. <sup>5</sup> Continuous blue sky from S-W-NNW.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Sept. 26.	8	85° 7'	79° 16'	SSW	4.0	761.9	-16.4	1.1	89	10	Str.		☼ <sup>2</sup>
	10	- 7	- 16	S <sup>b</sup> W	2.2		-18.7	0.8	84	8°	Ci.		☼
	Noon	- 7	- 17	S	2.8	61.9	-21.7	0.6	86	10	Cist.		☼
	2	- 7	- 18	S	3.2		-22.2	0.7	86	6°	Ci. Cist.		☼
	4	- 7	- 19	S <sup>b</sup> E	3.0	61.6	-23.9	0.5	85	10	Cist.		☼
	6	- 7	- 20	S	2.6		-22.7	0.6	86	7°	Ci. Cist.		☼
	8	- 7	- 21	S <sup>b</sup> E	2.3	60.8	-24.1	0.5	85	10	Cist.		☼
	10	- 7	- 22	SSW	4.2		-18.4	0.9	89	10	Str.		☼
	Mn.	- 7	- 23	SSW	5.1	60.1			88	10	Str.		☼
Sept. 27.	2	85 7	79 24	SSW	4.1				88	10	Str.		☼
	4	- 7	- 25	SW <sup>b</sup> S	3.4	59.4			88	10	Str. Cicu.		☼
	6	- 7	- 25	SSW	4.4				89	10	Str.		☼
	8	- 7	- 26	S <sup>b</sup> W	5.2	58.3	-16.0	1.1	92	10	Str.		☼
	10	- 7	- 27	S <sup>b</sup> W	5.9		-15.2	1.2	87	10	Str.		☼
	Noon	- 7	- 28	S <sup>b</sup> W	5.8	57.3	-16.8	1.0	87	10	Cicu.	WNW	☼
	2	- 8	- 29	S <sup>b</sup> W	4.3		-21.7	0.6	81	10°	Ci. Cist.	WNW	☼
	4	- 8	- 30	S <sup>b</sup> W	6.0	56.6	-20.3	0.7	81	10	Cust.		☼
	6	- 8	- 31	SSW	6.8		-20.0	0.7	82	10	Str.		☼
	8	- 8	- 32	SW <sup>b</sup> S	6.5	55.4	-16.9	1.0	84	10	Str.		☼
	10	- 8	- 33	SW <sup>b</sup> S	6.6		-15.6	1.1	86	10	Str.		☼
	Mn.	- 8	- 34	SW <sup>b</sup> S	8.0	54.2			90	10	Str.		☼
Sept. 28.	2	85 8	79 35	SSW	9.0				90	10	Str.		☼
	4	- 8	- 36	SW <sup>b</sup> S	6.2	53.2			89	10	Str.		☼
	6	- 8	- 36	SW <sup>b</sup> S	5.2				90	10	Str.		☼
	8	- 8	- 37	NW <sup>b</sup> W	4.2	52.9	-14.9	1.2	87	10	Str.		☼
	10	- 8	- 38	NW	2.4		-21.2	0.7	83	0			☼
	Noon	- 8	- 39	W <sup>b</sup> N	3.8	53.2	-23.2	0.6	81	0			☼
	2	- 8	- 40	W <sup>b</sup> N	4.4		-24.6	0.5	80	10°	Cist.		☼
	4	- 8	- 41	W <sup>b</sup> S	5.0	53.2	-22.7	0.5	80	10°	Cist.		☼
	6	- 8	- 42	W	3.9		-24.9	0.5	80	10°	Cist.		☼
	8	- 8	- 43	SW	3.0	53.2	-25.6	0.5	78	10	Str.		☼
	10	- 8	- 44	WSW	3.5		-22.3	0.6	82	10	Cist.		☼
	Mn.	- 8	- 43	W <sup>b</sup> S	5.0	52.8			85	10	Str.		☼
Sept. 29.	2	85 8	79 43	SW <sup>b</sup> S	3.2				84	10	Str.		☼
	4	- 8	- 42	SW <sup>b</sup> W	4.2	52.3			86	10	Str.		☼
	6	- 8	- 41	W	3.2				87	10	Str.		☼
	8	- 8	- 40	SW <sup>b</sup> W	4.2	52.3	-15.7	1.2	88	10	Str.		☼
	10	- 8	- 39	WSW	5.4		-15.5	1.1	87	10	Str.		☼
	Noon	- 8	- 39	W	3.6	52.3	-15.2	1.2	87	10	Str.		☼
	2	- 8	- 38	W	4.1		-14.8	1.2	88	10	Str.		☼
	4	- 8	- 37	NW <sup>b</sup> W	3.2	53.1	-14.9	1.2	89	10	Str.		☼
	6	- 8	- 36	WNW	2.8		-15.2	1.2	88	10	Str.		☼
	8	- 8	- 35	WNW	0.0	53.3	-15.6	1.1	88	10	Str.		☼
	10	- 9	- 35	W	1.2		-15.7	1.2	88	10	Str.		☼
	Mn.	- 9	- 34	WSW	1.6	53.4			88	10	Str.		☼
Sept. 30.	2	85 9	79 33	W	2.0				88	10	Str.		☼
	4	- 9	- 32	W	2.0	53.7			88	10	Str.		☼
	6	- 9	- 31	W <sup>b</sup> N	3.1				88	10	Str.		☼
	8	- 9	- 31	N	2.5	54.2	-16.1	1.1	88	10	Str.		☼
	10	- 9	- 30	NE <sup>b</sup> E	2.7		-16.8	1.0	87	10	Str.		☼
	Noon	- 9	- 29	NE <sup>b</sup> E	3.8	55.1	-18.5	0.9	86	10	Str.		☼
	2.15	- 9	- 28	ENE	2.8		-19.0	0.9	87	10	Str.		☼
	4	- 9	- 27	ENE	2.8	55.7	-19.1	0.9	87	10	Str.		☼
	6	- 9	- 27	E <sup>b</sup> S	2.6		-19.1	0.9	87	10	Str.		☼
	8	- 9	- 26	ESE		56.1	-19.5	0.8	87	10	Str.		☼
	10	- 9	- 25	SSE	1.9		-20.5	0.8	84	10°	Cist.		☼
	Mn.	- 9	- 24	SSE	1.2	55.8			82				☼

<sup>1</sup> Thick over the horiz. in SE. <sup>2</sup> A denser ring of cist. round the horiz. up to a height of from 20 to 30°.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Octb. 1.	2	85° 9'	79° 23'		0				83	0			
	4	- 10	- 23		0	755.7			83	0			
	6	- 10	- 22	SSW	0.0				82	1°	Ci.		
	8.15	- 10	- 21	W	1.7	55.5	-25.5	0.5	81	0			
	10	- 10	- 20	W <sup>b</sup> S	2.6		-26.3	0.5	79	1°	Ci.		
	Noon	- 10	- 19	WSW	2.6	55.7	-27.1	0.4	79	0			
	2	- 10	- 19	WSW	2.6		-24.7	0.5	80	10	Cist.		
	4	- 10	- 18	WSW	3.2	56.3	-22.3	0.6	81	10	Str.		
	6	- 10	- 17	SW	3.0		-21.3	0.7	82	10	Str.		
	8	- 10	- 16	SW <sup>b</sup> W	2.6	56.3	-20.2	0.7	82	10	Str.		
	10	- 10	- 15	W <sup>b</sup> S	3.0		-19.6	0.8	83	10	Str.		
	Mn.	- 10	- 15	W	3.2	56.6			84	10	Str.		
Octb. 2.	2	85 10	79 14	NNE	3.4				86	10	Str.		
	4	- 10	- 13	N	2.3	57.2			85	10	Str.		
	6	- 10	- 12	NNE	1.2				85	10	Str.		
	8	- 11	- 11	ENE	2.4	57.1	-19.5	0.8	85	10	Cicu.Cist.	WSW	
	10	- 11	- 11	NE	3.1		-19.0	0.8	85	10	Str.		
	Noon	- 11	- 10	NE <sup>b</sup> E	3.4	57.1	-19.1	0.9	85	10	Str.		
	2	- 11	- 9	E <sup>b</sup> N	3.2		-19.4	0.8	90	10	Str.		
	4	- 11	- 8	E <sup>b</sup> N	2.1	56.7	-20.0	0.8	87	9	Str. Cust.		
	6	- 11	- 7	ENE	3.7		-19.7	0.8	87	10	Str.		
	8	- 11	- 7	E <sup>b</sup> N	4.2	55.9	-18.9	0.9	88	10	Str.		
	10	- 11	- 6	E	4.5		-18.7	0.9	89	10	Str.		
	Mn.	- 11	- 5	E <sup>b</sup> S	4.4	54.6			91	10	Str.		
Octb. 3.	2	85 11	79 4	E <sup>b</sup> S	5.2				94	10	Str.		
	4	- 11	- 3	ESE	6.0	53.7			89	10	Str.		
	6	- 11	- 3	SE <sup>b</sup> S	5.2				96	10	Str.		
	8	- 11	- 2	ESE	3.5	54.2	-15.5	1.2	91	10°	Cicu.Str.		
	10	- 11	- 1	ESE	4.5		-14.6	1.3	91	10	Str.		
	Noon	- 12	- 0	SE	5.0	54.8	-12.4	1.6	93	10	Cist.		
	2	- 12	78 59	ESE	6.2		-11.5	1.7	94	10	Str.		
	4	- 12	- 59	ESE	5.4	56.4	-14.8	1.3	91	10	Cist.		
	6	- 12	- 58	E <sup>b</sup> S	3.4		-17.5	1.0	89	3°	Cicu.		
	8	- 12	- 57	E	3.2	58.6	-18.9	0.9	89	2°	Ci.		
	10	- 12	- 56	ENE	3.1		-20.5	0.8	89	1°	Ci.	ENE & ESE	
	Mn.	- 11	- 56	E <sup>b</sup> N	2.1	60.7			92	3	Ci.		
Octb. 4.	2	85 11	78 55	NE <sup>b</sup> E	2.2				89	1°	Ci.		
	4	- 11	- 55	ESE	2.4	62.8			92	8	Cist.		
	6	- 11	- 54	ESE	1.9				94	10	Str.		
	8	- 11	- 54	E <sup>b</sup> S	1.4	64.6	-14.7	1.4	95	10	Str.		
	10	- 11	- 53		0		-13.0	1.4	89	10	Str.		
	Noon	- 11	- 52		0	65.7	-13.0	1.4	89	10	Str.		
	2	- 10	- 52	W	1.8		-12.6	1.5	89	10	Str.		
	4	- 10	- 51	NNW	3.0	66.6	-12.6	1.5	89	10	Str.		
	6	- 10	- 51	N <sup>b</sup> W	3.6		-13.2	1.4	89	10	Str.		
	8	- 10	- 50	NNW	3.5	67.6	-14.2	1.3	88	10	Str.		
	10	- 10	- 50	NW <sup>b</sup> W	4.0		-16.1	1.1	87	10	Ci. Cust.		
	Mn.	- 10	- 49	NNW	4.0	68.0			87	10	Cist.		
Octb. 5.	2	85 10	78 48	NNW	2.8				87	10	Cist.		
	4	- 9	- 48	W <sup>b</sup> N	4.5	68.5			86	10°	Ci.		
	6	- 9	- 47	W <sup>b</sup> N	2.8				84	8°	Str.		
	8	- 9	- 47	W <sup>b</sup> N	4.2	68.6	-15.7	1.2	88	10	Str.		
	10	- 9	- 46	W <sup>b</sup> N	4.5		-13.8	1.3	88	10	Str.		
	Noon	- 9	- 46	W <sup>b</sup> N	4.7	69.2	-13.0	1.4	89	10	Str.		
	2	- 9	- 45	WNW	4.8		-11.4	1.7	92	10	Str.		
	4	- 9	- 44	W <sup>b</sup> N	5.7	69.5	-11.5	1.6	91	10	Str.		

<sup>1</sup> Cist. round the horiz, highest in SSW.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s					Am.	Form.	Dir.	
Octb. 5.	6	85° 8'	78° 44'	W	5.6		-12.6	1.6	93	10	Str.		*°
	8	- 8	- 43	W <sup>b</sup> S	6.2	768.7	-12.5	1.6	94	10	Cist.		
	10	- 8	- 43	W <sup>b</sup> S	7.8		-12.5	1.6	93	10	Str.		
	Mn.	- 8	- 42	W <sup>b</sup> S	8.7	66.4			96	10	Str.		
Octb. 6.	2	85 8	78 42	W <sup>b</sup> S	10.6				94	10	Str.		*°
	4	- 8	- 41	W <sup>b</sup> S	8.6	64.6				10	Str.		*°
	6	- 8	- 40	W	9.0					10	Str.		*°
	8	- 7	- 40	W <sup>b</sup> N	8.8	62.9	-12.2	1.4	79	10	Cust.		
	10	- 7	- 39	WNW	5.2		-12.5	1.3	79	10	Cist.		
	Noon	- 7	- 39	WNW	5.4	62.0	-13.6	1.2	79	10	Str.		
	2	- 7	- 38	NW	4.5		-14.1	1.2	78	10	Str.		
	4	- 7	- 38	NW	3.6	62.1	-13.8	1.2	80	10	Str.		
	6	- 7	- 37	W	4.4		-15.2	1.0	78	10	Str.		
	8	- 7	- 36	NW	3.6	61.5	-14.1	1.2	78	10	Str.		
	10	- 6	- 36	N <sup>b</sup> E	2.3		-13.0	1.2	80	10	Str.		
	Mn.	- 6	- 35	ENE	3.0	61.8	-13.2	1.3	77	10	Str.		
Octb. 7.	2	85 6	78 35	E <sup>b</sup> N	4.0				76	10	Str.		
	4	- 6	- 34	E <sup>b</sup> N	3.4	63.3			75	3			
	6	- 6	- 34	ENE	3.4				72	0			
	8	- 6	- 33	N <sup>b</sup> E	3.1	65.2	-20.4	0.6	74	1	Ci.	N	
	10	- 6	- 32	NE <sup>b</sup> N	3.4		-21.7	0.5	72	2°	Ci.		
	Noon	- 5	- 32	NNW	2.9	66.5	-21.3	0.6	72	1			
	2	- 5	- 31	N <sup>b</sup> E	2.6		-25.4	0.4	71	0			
	4	- 5	- 31	NE <sup>b</sup> N	2.2	68.4	-25.7	0.4	70	0			
	6	- 5	- 31	E <sup>b</sup> N	2.0		-26.0	0.4	70	3°	Cicu.	NNE	1
	8	- 5	- 32	SE <sup>b</sup> E	2.0	69.8	-25.4	0.4	70	8°	Cicu.	NNE	
	10	- 5	- 33	SE <sup>b</sup> S	1.9		-25.8	0.4	70	9	Cicu.	NNE	
	Mn.	- 6	- 35	SSE	3.0	70.5			70	10°	Cicu.	NNE	
Octb. 8.	2	85 6	78 37	SSE	3.2				70	10°	Cicu.		
	4	- 6	- 39	S	4.1	71.0			71	10°	Cist.	WNW	
	6	- 6	- 40	S	4.7				72	10	Str.		2
	8	- 6	- 42	SSE	5.0	70.6	-16.9	0.9	74	10	Cust.	NNW	
	10	- 7	- 44	S <sup>b</sup> E	5.2		-15.9	1.0	74	10	Str.		3
	Noon	- 7	- 46	S <sup>b</sup> W	5.7	70.3	-15.2	1.0	75	10	Cist.		4
	2	- 7	- 47	S <sup>b</sup> W	4.6		-14.0	1.1	75	10	Str.		
	4	- 7	- 49	S <sup>b</sup> W	4.9	70.4	-13.8	1.2	76	10	Str.		
	6	- 7	- 51	S <sup>b</sup> W	5.2		-13.7	1.2	75	10	Str.		
	8	- 7	- 53	S <sup>b</sup> W	5.3	70.4	-13.6	1.2	77	10	Str.		
	10	- 8	- 54	S <sup>b</sup> E	4.3		-13.1	1.2	76	10	Cist.		
	Mn.	- 8	- 54	SSW	3.5	70.5			76	10°	Cust.	S	
Octb. 9.	2	85 8	78 54	S	3.0				76	10	Str.		
	4	- 8	- 55	SSE	3.6	70.9			76	10	Cist.		
	6	- 8	- 55	S <sup>b</sup> E	3.4				76	10°	Cust.		
	8	- 8	- 55	SSE	2.4	70.7	-18.9	0.7	73	0			
	10	- 9	- 55	SE	1.6		-22.2	0.5	71	0			
	Noon	- 9	- 55	SE	4.0	70.2	-23.8	0.4	70	0			
	2	- 9	- 56	E <sup>b</sup> S	0.0		-23.3	0.4	70	0			
	4	- 9	- 56	NE <sup>b</sup> E	2.1	71.2	-22.1	0.5	71	1°	Ci.		
	6	- 9	- 56	NE <sup>b</sup> E	3.0		-19.6	0.7	72	8°	Cicu.		
	8	- 9	- 56	NE <sup>b</sup> E	3.2	70.1	-18.7	0.7	73	9°	Ci.		
	10	- 10	- 56	E <sup>b</sup> N	3.4		-17.1	0.9	75	7°	Ci.	ESE & SE	5
	Mn.	- 10	- 57	E <sup>b</sup> N	2.2	69.7			73	3	Ci.	E	
Octb. 10.	2	85 10	78 57	E <sup>b</sup> N	2.3				73	7	Cicu.	ESE	
	4	- 10	- 57	NE <sup>b</sup> E	1.8	69.8			73	5	Cicu.		
	6	- 10	- 57	E <sup>b</sup> S	2.3				74	10	Str.		

<sup>1</sup> Cicu with converging-point in NNE. <sup>2</sup> Clear with dawn over the horiz. in ENE. <sup>3</sup> Clear over the horiz. in ENE. <sup>4</sup> Clear over the horiz. in ENE. <sup>5</sup> Cirrus-belt S to N.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Octb. 10.	8	85° 10'	78° 57'	E <sup>b</sup> S	2.0	769.4	-15.8	1.0	75	10	Cu.	ESE	
	10	- 10	- 58	ESE	1.8		-17.2	0.8	74	2	Cist.		
	Noon	- 11	- 58	S	2.9	69.5	-20.7	0.6	72	10°	Cist.		
	2	- 11	- 58	S <sup>b</sup> W	2.6		-18.5	0.8	73	10	Str.		
	4	- 11	- 58	S <sup>b</sup> W	3.1	69.7	-16.4	0.9	74	10	Str.		
	6	- 11	- 58	SSW	4.0		-15.1	1.0	74	10	Str.		
	8	- 11	- 59	S <sup>b</sup> W	3.0	69.6	-14.3	1.1	76	10	Str.		
	10	- 11	- 59	S <sup>b</sup> W	2.4		-13.4	1.2	77	10	Str.		
	Mn.	- 12	- 59	S <sup>b</sup> E	2.0	69.3			77	10	Str.		
Octb. 11.	2	85 12	78 59	S <sup>b</sup> W	4.5				77	10	Str.		
	4	- 12	- 59	S <sup>b</sup> W	4.0	69.1			77	10	Str.		
	6	- 12	- 59	SW	4.8				77	10	Str.		
	8	- 12	79 0	SSW	5.6	68.9	-13.8	1.2	76	10	Str.		
	10	- 12	- 0	S <sup>b</sup> W	5.7		-14.4	1.1	76	10	Str.		
	Noon	- 13	- 0	S <sup>b</sup> W	7.0	68.8	-15.3	1.0	75	10	Str.		
	2	- 13	- 0	S	5.2		-14.9	1.1	76	10	Str.		
	4	- 13	- 0	S <sup>b</sup> W	3.1	68.4	-14.2	1.1	76	10	Str.		
	6	- 13	- 1	S <sup>b</sup> W	5.1		-13.8	1.2	76	10	Str.		
	8	- 13	- 1	S <sup>b</sup> W	4.8	68.0	-14.3	1.1	76	10	Str.		
	10	- 13	- 1	S <sup>b</sup> W	5.8		-15.8	1.0	75	10	Ci. Cust.		
	Mn.	- 14	- 0	SE <sup>b</sup> S	5.2	68.1			74	6	Ci. Cust.		
Octb. 12.	2	85 14	78 59	S	2.8				73	0			
	4	- 14	- 59	S	2.2	68.2			72	0			
	6	- 15	- 58	S	2.9				71	0			
	8	- 15	- 57	SSE	2.8	69.2	-22.4	0.5	71	0			
	10	- 15	- 57	SSE	2.8		-20.9	0.6	71	1°	Ci.		
	Noon	- 16	- 56	SE	2.7	69.4	-24.7	0.4	70	0			
	2	- 16	- 55	SE	5.5		-16.3	0.9	74	10	Str.		
	4	- 16	- 54	SSE	5.7	70.1	-15.6	1.0	75	10	Str.		
	6	- 16	- 54	SE	6.4		-16.1	0.9	75	10	Str.		
	8	- 17	- 53	SE <sup>b</sup> S	7.6	70.3	-16.3	0.9	74	10	Str.		
	10	- 17	- 52	SE <sup>b</sup> E	4.1		-15.7	1.0	75	10	Str.		
	Mn.	- 17	- 52	SE	5.8	70.1			74	10	Str.		
Octb. 13.	2	85 18	78 51	SE	5.5				73	10	Str.		
	4	- 18	- 50	SE <sup>b</sup> S	5.8	70.3			74	10	Str.		
	6	- 18	- 49	SE <sup>b</sup> E	4.5				74	10	Str.		
	8	- 19	- 49	ESE	6.5	70.0	-14.6	1.1	72	10	Cust.		
	10	- 19	- 48	SE <sup>b</sup> E	5.2		-15.9	0.9	72	10	Ci. Cust.		
	Noon	- 19	- 47	SE <sup>b</sup> S	4.1	69.8	-19.9	0.6	71	10	Ci. Cust.		
	2	- 20	- 47	SE	5.8		-17.1	0.9	72	10	Str.		
	4	- 20	- 46	SE <sup>b</sup> E	5.6	70.3	-16.4	0.9	72	10	Str.		
	6	- 20	- 45	SE	4.2		-16.1	0.9	72	10	Str.		
	8	- 20	- 44	SE	5.1	70.5	-17.8	0.8	71	10	Str.		
	10	- 21	- 44	SE <sup>b</sup> E	4.6		-17.3	0.8	72	10	Str.		
	Mn.	- 21	- 43	SE <sup>b</sup> S	6.0	70.6			76	10	Str.		
Octb. 14.	2	85 21	78 42	SE <sup>b</sup> E	4.9				71	10	Str.		
	4	- 22	- 42	SE <sup>b</sup> E	3.9	69.7			71	10	Str.		
	6	- 22	- 41	SE <sup>b</sup> S	5.8				71	10°	Cist.		
	8	- 22	- 40	SSE	6.8	70.0	-18.1	0.8	71	10	Str.		
	10	- 23	- 39	SE	5.2		-18.5	0.7	71	10	Cist.		
	Noon	- 23	- 39	SE <sup>b</sup> E	4.6	70.4	-20.2	0.6	70	10	Cist.		
	2	- 23	- 38	E <sup>b</sup> S	3.8		-22.9	0.5	69	0			
	4	- 23	- 37	SE	3.8	70.0	-22.8	0.5	69	0			
	6	- 24	- 37	SSE	3.6		-21.9	0.5	69	0			
	8	- 24	- 36	SE <sup>b</sup> S	3.9	69.5	-22.5	0.5	69	7°	Ci.	SSE	
	10	- 25	- 36	SE <sup>b</sup> E	3.3		-19.6	0.6	71	9°	Cicu.	S	
	Mn.	- 25	- 35	SE	5.3	69.1			75	10	Str.		

<sup>1</sup> Bank over the E horiz. <sup>2</sup> No — on the instruments today.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Octb. 15.	2	85° 25'	78° 35'	SE	3.5				73	9°	Cicu.		
	4	- 26	- 35	SE	6.0	769.3			72	8°	Cicu.		
	6	- 26	- 34	SE <sup>b</sup> E	4.2				69	1°	Ci.		
	8	- 26	- 34	SE <sup>b</sup> E	4.2	68.4	-22.7	0.5	69	0			
	10	- 27	- 34	SE	5.6		-23.4	0.4	68	10°	Cist.		
	Noon	- 27	- 33	SE	5.6	68.1	-23.9	0.4	68	10°	Cist.		
	2	- 28	- 33	SE <sup>b</sup> S	6.3		-24.2	0.4	68	0			
	4	- 28	- 33	SSE	6.5	68.2	-25.2	0.4	67	3°	Ci.		
	6	- 28	- 32	SSE	5.9		-25.7	0.4	67	0			
	8	- 29	- 32	SSE	6.6	68.2	-21.1	0.5	69	10	Str.		
	10	- 29	- 31	SE <sup>b</sup> S	8.2		-17.9	0.8	72	10	Str.		*°
	Mn.	- 29	- 31	SE <sup>b</sup> S	8.0	68.8			70	2	Cu.		
Octb. 16.	2	85 30	78 31	SE <sup>b</sup> S	6.5				71	5	Cist.		
	4	- 30	- 30	SE <sup>b</sup> S	5.8	69.4			69	1	Ci.		
	6	- 31	- 30	SE <sup>b</sup> S	6.5				71	3	Ci.		
	8	- 31	- 30	SE <sup>b</sup> S	7.7	69.1	-22.1	0.5	69	0			1
	10	- 31	- 29	SSE	7.2		-21.4	0.6	69	1°	Ci.		
	Noon	- 32	- 29	SSE	6.9	68.6	-22.2	0.6	69	0			
	2	- 32	- 29	SSE	5.5		-23.3	0.4	69	0			
	4	- 32	- 28	SSE	5.2	68.1	-23.6	0.4	69	2	Cu.	SSW	
	6	- 33	- 28	S <sup>b</sup> E	6.2		-22.0	0.5	69	10	Cist.		
	8	- 33	- 28	S <sup>b</sup> E	6.7	67.2	-19.6	0.6	70	10	Str.		
	10.15	- 34	- 27	S	6.6		-18.9	0.7	72	10	Str.		
	Mn.	- 34	- 27	S	6.4	66.6			73	10	Str.		
Octb. 17.	2	85 34	78 27	S	6.0				73	10	Str.		
	4	- 35	- 26	S <sup>b</sup> E	7.2	65.7			73	10	Str.		
	6	- 35	- 26	S	7.2				73	10	Str.		
	8	- 36	- 26	S	8.6	65.3	-16.7	0.9	73	10	Str.		
	10	- 36	- 25	S	8.0		-17.9	0.8	71	10	Cust.	SSW & S	2
	Noon	- 36	- 25	S	7.3	64.6	-17.5	0.8	72	10	Cust.		
	2	- 37	- 25	S	8.5		-17.5	0.8	71	10	Ci. Cust.	S	
	4	- 37	- 24	S	8.2	64.6	-19.6	0.6	69	3°	Ci.		
	6	- 37	- 23	S	9.0		-19.5	0.7	70	3°	Ci.		
	8	- 38	- 22	S <sup>b</sup> E	10.9	64.6	-17.1	0.8	71	10	Str.		3
	10	- 38	- 21	S	9.8		-17.2	0.8	71	10	Str.		
	Mn.	- 39	- 21	S	9.0	65.1			70	10	Str.		
Octb. 18.	2	85 39	78 20	S	10.0				70	10	Cust.		4
	4	- 39	- 19	S <sup>b</sup> E	9.0	65.5			71	9	Cist.		
	6	- 40	- 18	SSE	8.4				70	10	Ci. Cust.		
	8	- 40	- 17	SSE	7.1	65.8	-18.9	0.7	70	10	Str.		
	10	- 40	- 17	S	7.6		-18.8	0.6	68	10	Str.		
	Noon	- 41	- 16	S <sup>b</sup> E	7.5	66.2	-20.1	0.6	69	10	Str.		
	2	- 41	- 15	SE <sup>b</sup> S	6.2		-21.1	0.6	69	10	Str.		
	4	- 41	- 14	S <sup>b</sup> E	6.8	66.9	-20.6	0.6	69	10	Str.		5
	6	- 42	- 13	S <sup>b</sup> E	5.4		-21.3	0.6	69	3	Cust.		*
	8	- 42	- 13	SE <sup>b</sup> S	4.0	67.2	-22.5	0.5	68	1°	Ci.		
	10	- 43	- 12	SE	4.2		-22.6	0.4	68	10°	Cist.		
	Mn.	- 43	- 11	SE	3.6	67.8			68	0			
Octb. 19.	2	85 43	78 10	SE	4.4				68	9°	Cist.		
	4	- 44	- 9	SE <sup>b</sup> E	2.7	68.2			67	0			
	6	- 44	- 8	SE <sup>b</sup> E	2.7				67	0			
	8	- 44	- 8	ESE	2.5	68.7	-26.3	0.4	67	0			
	10	- 45	- 7	ESE	3.4		-26.9	0.4	66	2°	Cist.		
	Noon	- 45	- 5	E <sup>b</sup> S	3.7	68.8	-26.3	0.4	66	10	Cist.		

<sup>1</sup> Low m. <sup>2</sup> 10 a. m. and noon. Driving snow from the ground. <sup>3</sup> 8 and 10 p. m. Driving snow from the ground. <sup>4</sup> Driving snow from the ground. <sup>5</sup> Dark bank on the horiz. between E and NNW.



1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Octb. 19.	2	85° 45'	78° 3'	E b S	3.2		-27.6	0.3	66	0			
	4	- 45	- 0	E b S	3.2	769.2	-29.1	0.3	65	2	Ci.		
	6	- 45	77 57	E b S	2.6		-29.6	0.2	65	0			
	8	- 45	- 55	E b S	2.4	69.0	-30.2	0.2	65	0			
	10	- 45	- 52	SE b E	2.0		-29.6	0.2	65	10°	Cist.		
	Mn.	- 45	- 50	E b S	2.9	69.0			65	10°	Cist.		
Octb. 20.	2	85 45	77 47	E	2.6				66	10	Str.		
	4	- 46	- 45	E b S	2.3	69.2			65	3°	Ci.		
	6	- 46	- 42	E b S	2.0				66	3	Ci.		
	8	- 46	- 40	E	2.0	69.1	-30.0	0.2	65	0			
	10	- 46	- 37	E	2.1		-30.0	0.2	65	0			
	Noon	- 46	- 35	SE b S	0.0	69.5	-30.1	0.2	65	10°	Cust.		
	2	- 46	- 32	E b S	0.0		-30.0	0.2	65	10°	Cist.		
	4.15	- 46	- 30	E b S	1.8	69.4	-30.0	0.3	66	10	Cist.		
	6	- 46	- 27	NE b E	2.2		-30.0	0.2	65	3	Cist.		
	8	- 46	- 25	SE b S	1.9	69.4	-30.2	0.3	66	0			
	10	- 46	- 22	E b S	0.0		-30.1	0.2	65	0			
	Mn.	- 46	- 20	E	0.0	69.3			65	0			
Octb. 21.	2	85 46	77 17	E b S	1.8				66	0			
	4	- 46	- 15	E b S	1.7	69.1			65	0			
	6	- 46	- 12	E b S	1.4				66	0			
	8	- 46	- 10	NE b E	2.2	69.0	-28.5	0.3	66	10	Cist.		
	10	- 46	- 7	NNE	2.9		-27.9	0.3	67	10	Cist.		
	Noon	- 46	- 5	NNE	2.5	69.4	-27.6	0.3	67	10	Cist.		
	2	- 46	- 2	E b N	3.5		-27.1	0.4	68	10	Cist.		
	4	- 46	- 0	E b N	3.5	69.4	-26.3	0.4	68	10	Str.		
	6	- 46	76 57	E b N	3.3		-26.6	0.4	68	10	Str.		
	8	- 46	- 54	E b N	3.2	69.0	-27.9	0.3	67	0			
	10	- 46	- 47	NNE	4.8		-29.0	0.3	68	0			
	Mn.	- 46	- 39	NNE	3.8	68.3			68	10°	Ci.		
Octb. 22.	2	85 46	76 32	NNE	4.1				69	10	Str.		
	4	- 46	- 25	NNE	4.9	67.1			69	10	Str.		
	6	- 46	- 17	NNE	7.4				72	10	Str.		
	8	- 46	- 10	N b E	7.0	65.9	-22.3	0.5	71	10	Str.		
	10	- 46	- 2	N b E	8.1		-21.4	0.6	71	10	Cust.		
	Noon	- 46	75 55	N b E	8.4	64.3	-21.5	0.6	71	10	Str.		
	2	- 46	- 47	N b E	8.8		-19.7	0.6	72	10	Str.		
	4	- 46	- 40	NE b N	7.3	64.3	-19.6	0.7	72	10	Cust.		
	6	- 46	- 32	NE	7.3		-20.3	0.7	71	10	Cist.		
	8	- 46	- 25	NE	7.1	63.6	-21.3	0.6	71	10	Cist.		
	10	- 46	- 18	E	8.8		-22.0	0.5	72	10°	Cist.		
	Mn.	- 46	- 10	E	6.4	64.9			70	10°	Cist.		
Octb. 23.	2	85 46	75 3	E	7.0					10°	Cist.		
	4	- 46	74 55	E b N	5.2	66.5			71	0			
	6	- 46	- 48	E b N	4.9				70	0			
	8	- 46	- 40	ENE	4.0	67.9	-25.1	0.4	70	0			
	10	- 46	- 33	ENE	4.1		-25.3	0.4	69	0			
	Noon	- 46	- 26	NE b E	4.6	69.5	-25.3	0.4	69	10°	Cist.		
	2	- 46	- 20	NE b E	4.2		-24.4	0.4	70	0			
	4	- 46	- 16	NE b E	4.0	70.5	-25.4	0.4	69	1°	Ci.		
	6	- 46	- 12	NE b E	3.6		-26.1	0.4	69	0			
	8	- 46	- 8	NE	3.5	71.1	-26.5	0.4	69	0			
	10	- 46	- 4	E b N	3.8		-27.1	0.4	70	0			
	Mn.	- 46	- 1	NE b E	3.0	71.5			70	0			

<sup>1</sup> Cist. over the horiz. in ESE. <sup>2</sup> Cist. over the horiz. in ESE and SSW. <sup>3</sup> Cist. over the horiz.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Octb. 24.	2	85° 46'	73° 57'	NE <sup>b</sup> N	3·7				69	0			
	4	- 46	- 53	NE <sup>b</sup> E	4·0	772·4			69	0			
	6	- 46	- 49	NE	2·8				69	0			
	8	- 46	- 45	NNE	4·5	72·3	-27·9	0·3	69	0			
	10	- 46	- 42	NNE	4·2		-27·5	0·4	69	3°	Cist.		
	Noon	- 46	- 38	NNE	3·2	72·7	-27·5	0·4	69	1°	Ci.		
	2	- 46	- 34	N <sup>b</sup> E	4·8		-27·3	0·4	69	0			
	4	- 46	- 30	NE <sup>b</sup> N	2·8	73·4	-27·7	0·3	69	0			
	6	- 46	- 26	NE <sup>b</sup> N	3·0		-28·1	0·3	68	0			
	8	- 46	- 23	NNE	3·5	73·8	-28·2	0·3	68	0			
	10	- 46	- 19	NE	3·5		-27·8	0·3	68	0			1
	Mn.	- 46	- 15	NE <sup>b</sup> N	2·7	74·3			68	0			
Octb. 25.	2	85 46	73 11	NE <sup>b</sup> N	2·7				68	0			
	4	- 46	- 7	NNE	2·5	75·1			69	0			
	6	- 46	- 4	ENE	2·2				68	0			
	8	- 46	- 0	NE <sup>b</sup> E	2·2	76·0	-27·9	0·3	68	10°	Cist.		2
	10	- 46	72 56	NE <sup>b</sup> E	1·5		-28·3	0·3	68	0			
	Noon	- 46	- 53	NE <sup>b</sup> E	1·4	76·5	-27·6	0·3	68	0			
	2	- 46	- 55	SE <sup>b</sup> S	1·3		-28·1	0·3	68	0			3
	4	- 46	- 56		0	77·6	-28·5	0·3	68	0			
	6	- 46	- 57	NE <sup>b</sup> E	0·0		-28·3	0·3	68	0			
	8	- 46	- 58	SW <sup>b</sup> S	2·6	78·1	-28·7	0·3	68	0			
	10	- 46	- 59	SSW	2·4		-28·7	0·3	68	0			4
	Mn.	- 46	73 1	SSW	2·6	78·3			68	0			
Octb. 26.	2	85 46	73 2	SW <sup>b</sup> S	2·4				68	0			
	4	- 46	- 3	SW	2·2	78·5			68	0			
	6	- 46	- 4	WSW	3·6				67	0			
	8.15	- 46	- 6	SW <sup>b</sup> S	3·5	78·4	-28·7	0·3	68	0			
	10	- 46	- 7	SW <sup>b</sup> S	5·5		-27·8	0·3	68	0			
	Noon	- 46	- 8	SW	4·0	78·3	-27·4	0·4	68	0			
	2	- 46	- 9	SW <sup>b</sup> W	3·6		-27·6	0·3	69	0			
	4	- 46	- 10	SW	5·0	78·4	-27·1	0·4	68	0			
	6	- 46	- 12	SW	3·3		-27·1	0·4	68	0			
	8	- 46	- 13	SW <sup>b</sup> W	4·1	78·5	-26·7	0·4	68	0			
	10	- 46	- 14	W <sup>b</sup> S	3·0		-27·7	0·3	68	0			
	Mn.	- 46	- 15	SW <sup>b</sup> W	3·0	78·6			68	0			
Octb. 27.	2	85 46	73 16	SW <sup>b</sup> S	3·0				69	0			
	4	- 46	- 18	SW <sup>b</sup> S	2·5	78·7			68	0			
	6	- 46	- 19	SW <sup>b</sup> S	3·5				68	0			
	8	- 46	- 20	SW <sup>b</sup> W	3·1	78·5	-28·7	0·3	68	0			
	10	- 46	- 21	SW	4·0		-28·7	0·3	67	0			
	Noon	- 46	- 22	SW	3·8	77·6	-27·6	0·3	68	9	Cicu.	W	
	2	- 46	- 24	SW	4·8		-25·3	0·4	69	10°	Cicu.		
	4	- 46	- 25	SW	3·4	76·1	-24·3	0·5	69	10°	Cist.		
	6	- 46	- 26	SW <sup>b</sup> S	4·6		-24·0	0·4	69	10°	Cist.		
	8	- 46	- 27	SW <sup>b</sup> S	3·7	74·3	-23·3	0·4	70	10°	Cist.		
	10	- 46	- 29	SSW	3·4		-23·5	0·4	70	10°	Cist.		
	Mn.	- 46	- 30	SSW	3·2	72·1			70	0			
Octb. 28.	2	85 46	73 31	SE <sup>b</sup> S	0·0				70	0			
	4	- 46	- 32	SE <sup>b</sup> S	2·2	69·5			69	0			
	6	- 46	- 33	SE <sup>b</sup> S	3·0				69	0			
	8	- 46	- 35	SSE	2·5	66·6	-26·5	0·4	68	0			
	10	- 46	- 36	SE <sup>b</sup> S	2·8		-27·2	0·4	68	0			
	Noon	- 46	- 37	S <sup>b</sup> E	2·9	63·7	-26·9	0·4	69	0			

<sup>1</sup> The Milky Way visible. <sup>2</sup> ≡ over the horiz.; thick round the horiz. <sup>3</sup> 2, 4 p. m. ≡ along the horiz.  
<sup>4</sup> 10 p. m. and Midn. The Milky Way visible.

1895. Day.	H l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Octb. 28.	2	85° 46'	73° 38'	SE	2.4		-26.7	0.4	70	0			
	4	- 46	- 40	ESE	3.2	760.4	-23.7	0.6	89	0			
	6	- 46	- 39	E	4.8		-23.3	0.6	89	2°			
	8	- 46	- 30	NE <sup>b</sup> E	5.0	56.6	-21.9	0.7	89	1°	Ci.		
	10	- 46	- 21	NE <sup>b</sup> E	5.5		-20.0	0.8	91	10	Str.		* <sup>2</sup>
	Mn.	- 46	- 12	ENE	7.0	52.2			92	10	Str.		* <sup>0</sup>
Octb. 29.	2	85 46	73 2	ENE	7.0				93	10	Str.		* <sup>2</sup>
	4	- 46	72 53	ENE	7.4	49.4			95	10	Str.		* <sup>2</sup>
	6	- 46	- 44	ENE	8.2				93	10	Str.		* <sup>2</sup>
	8	- 46	- 35	ENE	10.8	47.2	-15.5	1.3	93	10	Str.		* <sup>2</sup>
	10	- 46	- 26	NE <sup>b</sup> E	9.8		-15.9	1.2	94	10	Str.		* <sup>2</sup>
	Noon	- 45	- 16	NE <sup>b</sup> E	9.5	45.9	-15.8	1.2	95	10	Str.		* <sup>2</sup> <sub>1</sub>
	2	- 45	- 7	ENE	11.6		-16.1	1.2	97	10	Str.		* <sup>2</sup>
	4	- 45	71 58	NE <sup>b</sup> E	11.9	45.2	-17.1	1.1	96	10	Str.		* <sup>2</sup>
	6	- 45	- 49	NE <sup>b</sup> E	11.0		-17.9	1.0	92	10	Str.		* <sup>2</sup>
	8	- 45	- 39	NE <sup>b</sup> E	11.2	44.7	-18.3	0.9	91	10	Str.		* <sup>2</sup>
	10	- 45	- 30	NE	10.4		-18.8		10	10	Str.		* <sup>2</sup>
	Mn.	- 45	- 21	NE	11.4	44.6			10	10	Str.		* <sup>2</sup>
Octb. 30.	2	85 45	71 12	NE	11.0					10	Str.		* <sup>2</sup>
	4	- 45	- 3	NE	8.8	44.7				10	Ci. (Str.?)		
	6	- 45	70 53	NE	8.4					10	Str.		* <sup>2</sup>
	8	- 45	- 44	N <sup>b</sup> E	9.5	44.1	-23.2	0.6	86	10	Ci. Cist.		
	10	- 45	- 35	N <sup>b</sup> E	7.7		-23.9	0.5	86	7°	Cist.		
	Noon	- 45	- 30	N <sup>b</sup> E	9.8	43.7	-24.1	0.5	85	10°			
	2	- 44	- 29	N	7.3		-24.6	0.5	86	10°	Ci. Cist.		
	4	- 44	- 29	N <sup>b</sup> W	6.8	43.0	-24.4	0.5	86	10°	Cist.		
	6	- 44	- 28	N <sup>b</sup> W	7.2		-23.7	0.5	86	10°	Str.		
	8	- 44	- 28	NNW	6.4	42.1	-24.4	0.5	86	10°	Cist.		
	10	- 43	- 28	NW <sup>b</sup> N	5.9		-25.9	0.5	86	10°	Cist.		m <sup>0</sup> <sub>2</sub>
	Mn.	- 43	- 27	NW	4.5	41.7			86	0			
Octb. 31.	2	85 43	70 27	NW	4.4				83	0			
	4	- 43	- 26	NW <sup>b</sup> W	5.2	41.1			83	0			<sup>3</sup>
	6	- 42	- 26	NW	6.8				83	10°	Cist.		
	8	- 42	- 25	NW <sup>b</sup> W	5.5	40.9	-26.9	0.5	84	10°	Ci. Cust.		* <sup>0</sup>
	10	- 42	- 25	NW <sup>b</sup> W	6.0		-26.6	0.5	83	10°	Ci. Cust.		
	Noon	- 42	- 24	NW <sup>b</sup> W	6.0	40.9	-27.1	0.4	83	8°	Ci. Cist.		
	2	- 41	- 24	NW <sup>b</sup> W	5.6		-26.4	0.5	84	10°	Cist.		
	4	- 41	- 23	NW	6.0	41.4	-26.3	0.5	84	10°	Ci. Cist.		
	6	- 41	- 23	NW <sup>b</sup> W	6.0		-26.4	0.5	83	2°	Cist.		
	8	- 41	- 22	WNW	4.2	42.1	-26.4	0.5	84	0			
	10	- 40	- 22	W	4.3		-25.9	0.5	84	5°	Ci.	WSW	
	Mn.	- 40	- 22	WSW	4.4	43.2			83	0			
Novb. 1.	2	85 40	70 21	W	4.6				85	0			
	4	- 40	- 21	W <sup>b</sup> S	4.2	44.3			84	0			
	6	- 39	- 20	WSW	3.9				84	0			
	8	- 39	- 20	SW <sup>b</sup> W	3.8	45.1	-30.4	0.3	84	1°	Ci.		
	10	- 39	- 19	SW	4.1		-31.1	0.3	83	2°	Ci.		
	Noon	- 39	- 18	SW	3.8	46.3	-31.7	0.3	83	3°	Ci.		
	2	- 39	- 16	SW <sup>b</sup> S	3.4		-31.5	0.3	84	0			
	4	- 39	- 14	SW <sup>b</sup> S	3.2	47.3	-31.8	0.3	83	1°	Ci.		
	6	- 39	- 12	S <sup>b</sup> W	2.9		-31.3	0.3	83	0			[ <sup>4</sup>
	8	- 39	- 10	S <sup>b</sup> E	2.2	48.0	-30.6	0.3	84	0			[ <sup>5</sup>
	10	- 39	- 8	SE <sup>b</sup> S	2.2		-28.7	0.3	84	10°	Cist.		[ <sup>6</sup>
	Mn.	- 39	- 6	SE <sup>b</sup> E	2.8	48.6			84	10°	Cist.		

<sup>1</sup> 2, 4 p. m. Driving snow from the ground. <sup>2</sup> Low m. <sup>3</sup> Thick all round the horiz. up to 20°. <sup>4</sup> Bank of clouds over the horiz. in S. <sup>5</sup> Bank of clouds over the horiz. from E to S. <sup>6</sup> ☐ and 2 mock-moons.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Novb. 2.	2	85° 40'	70° 4'	SE	2.6	74.8			85	10°	Cist.	SW	1
	4	- 40	- 2	ESE	2.3				84	10°	Ci.		
	6	- 40	- 0	SE <sup>b</sup> E	2.2				84	10°	Cist.		
	8	- 40	69 58	ESE	2.6	50.1	-30.0	0.3	84	1°	Ci.	SE	
	10	- 40	- 57	ESE	2.3		-31.1	0.3	84	2°	Ci.		
	Noon	- 40	- 55	SE <sup>b</sup> E	1.9	51.3	-30.5	0.3	84	3°	Ci.		
	2	- 40	- 53	ESE	1.9		-31.6	0.3	84	2°	Ci.		
	4	- 40	- 51	SE <sup>b</sup> E	2.1	52.7	-31.5	0.3	84	2°	Ci.		
	6	- 40	- 49	E <sup>b</sup> S	1.3		-30.4	0.3	84	2°	Ci.		
	8	- 40	- 47	E <sup>b</sup> S	0.0	54.6	-30.0	0.3	84	0			
	10	- 41	- 45	N <sup>b</sup> E	1.4		-30.8	0.3	84	0			
	Mn.	- 41	- 43		0	55.4			84	0			
Novb. 3.	2	85 41	69 41		0	57.0			83	0			
	4	- 41	- 39	E <sup>b</sup> N	1.9				82	0			
	6	- 41	- 37	E <sup>b</sup> S	2.0				82	10			
	8	- 41	- 35	E <sup>b</sup> S	2.7	58.9	-26.8	0.4	85	10		Cist.	
	10	- 41	- 33	E	2.2		-23.5	0.6	89	10			
	Noon	- 41	- 31	E	2.8	59.6	-25.6	0.5	89	0			
	2	- 41	- 29	E	3.1		-28.7	0.4	88	0			2
	4	- 41	- 27	ESE	2.7	60.0	-29.8	0.3	87	0			
	6	- 42	- 25	ESE	2.9		-29.7	0.3	86	0			
	8	- 42	- 23	E <sup>b</sup> S	2.6	60.0	-25.2	0.5	89	10°	Cist.	Cist. Str.	
	10	- 42	- 21	ESE	4.2		-21.9	0.7	90	10			
	Mn.	- 42	- 19	E	4.0	60.2			91	10			
Novb. 4.	2	85 42	69 17	E	4.2	60.1			93	10	Str.		
	4	- 42	- 15	E	4.2				91	10	Str.		
	6	- 42	- 13	E <sup>b</sup> N	3.1				91	10°	Cicu.	NNE	3 4
	8	- 42	- 11	N	2.4	59.0	-26.4	0.5	90	9°	Ci.		
	10	- 42	- 9	N	3.6		-27.0	0.5	89	7°	Ci.		
	Noon	- 42	- 8	N <sup>b</sup> E	4.2	57.6	-26.4	0.5	90	8°	Cist.		
	2	- 42	- 5	N <sup>b</sup> E	3.6		-28.3	0.4	89	10°	Cist.		
	4	- 42	- 1	N	2.9	56.6	-28.9	0.4	89	10°	Ci. Cist.		
	6	- 42	68 58	NNE	3.6		-28.0	0.4	89	10°	Ci. Cist.	NE	*° *°
	8	- 42	- 54	NE <sup>b</sup> N	3.6	55.6	-28.8	0.4	89	10	Cist.		
	10	- 42	- 51	NE	3.2		-25.2	0.5	91	10	Cust.		
	Mn.	- 42	- 47	NE <sup>b</sup> E	4.6	55.1			92	10	Str.		
Novb. 5.	2	85 42	68 43	NE <sup>b</sup> E	3.9	54.7			91	10	Str.		5
	4	- 42	- 40	NE <sup>b</sup> E	4.6				90	10°	Str.		
	6	- 42	- 36	NE	3.6				94	8°	Ci.		
	8	- 42	- 32	NE	3.6	54.0	-29.8	0.3	89	7°	Ci.		6
	10	- 42	- 29	NE	3.1		-31.3	0.3	88	2°	Ci.		
	Noon	- 42	- 25	N <sup>b</sup> E	2.5	53.6	-32.3	0.3	87	1°	Ci.		
	2	- 42	- 21	N <sup>b</sup> E	2.8		-32.9	0.2	87	0			
	4	- 42	- 18	N <sup>b</sup> E	1.8	52.9	-33.1	0.3	87	1°	Ci.		
	6	- 42	- 14	NNE	2.2		-32.9	0.3	87	10°	Ci.		
	8	- 42	- 10	NE <sup>b</sup> E	2.0	51.9	-32.3	0.3	87	10°	Ci.		
	10	- 42	- 7	NE <sup>b</sup> N	2.3		-31.3	0.3	87	10°	Ci.		
	Mn.	- 42	- 3	NE <sup>b</sup> N	2.8	51.0			88	10°	Cist.		
Novb. 6.	2	85 42	67 59	E <sup>b</sup> N	2.9	50.5			88	10	Cist.		
	4	- 42	- 56	E	4.0				90	10	Str.		
	6	- 42	- 52	E <sup>b</sup> N	4.5				89	10	Str.		
	8	- 42	- 48	ESE	4.4	50.3	-24.9	0.5	90	10	Cicu.	SE SE ESE	
	10	- 42	- 45	E <sup>b</sup> S	5.5		-25.9	0.5	88	10	Cust.		
	Noon	- 42	- 41	E <sup>b</sup> N	5.6	50.3	-26.4	0.5	88	10°	Cicu.		

<sup>1</sup> Segment of ci. on the horiz. between SE and NW. <sup>2</sup> Bank of cist. over the horiz. in E. <sup>3</sup> Cirrus-belts WNW to ESE. <sup>4</sup> 8 a. m., noon, 2, 4 p. m. <sup>5</sup> Cirrus-belts E to W. <sup>6</sup> Cirrus-belts NE to SW.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St-Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Novb. 6.	2	85° 42'	67° 33'	E b S	4.6		-27.9	0.4	88	0			1
	4	- 42	- 25	E b S	4.7	750.3	-28.7	0.3	88	0			
	6	- 42	- 17	E	5.5		-28.5	0.4	88	1°	Ci.		
	8	- 42	- 9	ENE	6.5	50.3	-28.1	0.4	88	1°	Ci.		
	10	- 42	- 1	NE b E	5.4		-27.4	0.5	89	0			2
	Mn.	- 42	66 52	NE b E	8.5	49.8			89	0	Cist.		3 4
Novb. 7.	2	85 42	66 44	NE b E	9.1				92	10°	Str.		
	4	- 42	- 36	NE b E	9.7	49.7			91	10	Str.		
	6	- 42	- 28	E b N	10.1				91	10	Str.		
	8	- 42	- 20	ENE	8.3	49.5	-23.8	0.6	92	10	Str.		
	10	- 42	- 12	NE b E	10.3		-24.2			10	Str.		5
	Noon	- 42	- 4	NE b E	10.0	49.4	-25.1			10	Str.		
	2	- 42	65 56	NE b E	10.1		-25.9			10	Str.		
	4	- 42	- 48	NE b E	8.5	49.0	-25.9	0.5	90	10	Str.		
	6	- 42	- 40	NE b E	9.4		-25.1			10	Str.		* <sup>2</sup>
	8	- 42	- 32	NE b E	8.4	47.8	-24.4			10	Str.		
	10	- 42	- 24	NE b E	7.8		-23.3	0.6	92	10	Str.		
	Mn.	- 42	- 16	NE	1.4	47.1			93	6	Cist.		
Novb. 8.	2	85 42	65 8	NE	6.2				77	0			
	4	- 42	- 0	NE	6.5	46.4				0			
	6	- 42	64 52	NE	6.0				77	0			
	8	- 42	- 44	NE	6.0	45.6	-24.4	0.5	78	10°	Ci. Cist.		
	10	- 42	- 36	NE	4.1		-26.2	0.5	76	10°	Cist.		6 7
	Noon	- 42	- 32	SE b E	3.1	46.4	-28.8	0.3	76	10°	Ci.		
	2	- 42	- 31	SE b E	4.0		-30.5	0.3	74	10°	Ci.		
	4	- 42	- 30	SE b E	3.2	47.1	-33.2	0.2	73	0			
	6	- 42	- 30	ESE	2.8		-34.2	0.2	72	0			8
	8	- 42	- 29	E b S	2.3	47.5	-35.2	0.2	73	0			
	10	- 42	- 29	E b N	2.6		-35.4	0.2	73	0			
	Mn.	- 42	- 28	E b S	1.7	48.4			73	0			
Novb. 9.	2	85 42	64 27	E b S	1.7				73	0			
	4	- 42	- 27		0	49.0			73	0			
	6	- 42	- 26		0				73	0			
	8	- 42	- 26	WNW	1.7	50.2	-35.9	0.1	73	0			
	10	- 42	- 25	W b S	2.7		-38.6	0.1	72	0			
	Noon	- 42	- 24	SW b S	2.8	51.9	-38.5	0.1	72	0			
	2	- 42	- 24	SW b S	3.5		-39.4	0.1	71	0			
	4	- 43	- 23	SW	3.5	53.8	-38.8	0.1	71	0			
	6	- 42	- 23	SW	4.4		-38.8	0.1	71	0			9
	8	- 42	- 22	SW	4.0	56.1	-39.0	0.1	71	0			
	10	- 43	- 26	SW	4.2		-38.8	0.1	71	0			
	Mn.	- 43	- 29	SW	4.2	58.8			71	0			
Novb. 10.	2	85 44	64 33	SW	3.9				72	0			
	4	- 44	- 36	SW	3.1	61.6			71	0			
	6	- 44	- 40	SW	3.0				71	0			
	8	- 45	- 43	SW b S	3.4	64.2	-38.7	0.1	72	0			
	10	- 45	- 46	S b W	3.1		-38.5	0.1	72	0			
	Noon	- 45	- 50	S b W	3.7	66.1	-38.2	0.1	72	0			
	2	- 46	- 53	S	3.0		-37.1	0.1	72	10°	Cist.		
	4	- 46	- 57	S	4.3	66.7	-35.0	0.2	73	10°	Cist.		
	6	- 46	65 0	S	4.1		-34.1	0.2	73	10°	Cist.		
	8	- 47	- 4	S	7.2	65.8	-32.1	0.2	74	10°	Cist.		
	10	- 47	- 7	S	7.7		-29.5	0.3	75	10°	Cist.		
	Mn.	- 47	- 11	S	8.0	63.5			76	10	Cist.		

<sup>1</sup> 4, 6 p. m. Bank of light under the moon over the horiz. <sup>2</sup> A rainbow-coloured  $\mathbb{U}$ . <sup>3</sup>  $\mathbb{U}$  with a pyramid on the horiz. and upper tangent bow. <sup>4</sup> Bank of light under the moon over the horiz. <sup>5</sup> 8, 10 a. m., noon, 4, 6, 8, 10 p. m. Driving snow from the ground. <sup>6</sup> Faint  $\mathbb{U}$ . <sup>7</sup> Half-clear. <sup>8</sup> Unusually clear. <sup>9</sup> The Milky Way visible.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Novb. 11.	2	85° 48'	65° 14'	S b E	12.8				76	10	Str.		* * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup>
	4	- 48	- 17	S b E	9.4	761.0			76		Str.		
	6	- 49	- 21	S	9.2				77	10	Str.		
	8	- 49	- 24	S	12.7	58.1	-21.1	0.6	80	10	Str.		
	10	- 49	- 28	S	13.0		-20.3		10	10	Str.		
	Noon	- 50	- 31	S b E	16.2	55.0	-19.7	0.9	93	10	Str.		
	2	- 50	- 35	S	12.6		-18.1	1.0	95	10	Str.		
	4	- 50	- 38	S	12.8	52.2	-16.0		10	10	Str.		
	6	- 51	- 41	S b W	13.7		-14.5		10	10	Str.		
	8	- 51	- 45	S b W	10.5	51.4	-13.0		10	10	Str.		
	10.15	- 51	- 49	SW	9.4		-15.8		10°		Cist.		
	Mn.	- 52	- 52	SW	9.0	53.2			0				
Novb. 12.	2	85 52	65 54	SW b W	7.0				100	10	Str.		* * <sup>o</sup>
	4.30	- 52	- 57	SW b W	7.0	56.0			99	10	Str.		
	6	- 52	- 59	SW	7.0				95	10	Str.		
	8	- 52	66 2	W	4.6	58.6	-23.1	0.6	94	10°	Str.		
	10	- 52	- 5	SW b W	3.6		-26.9	0.5	93	0			
	Noon	- 52	- 7	SW b S	1.8	61.0	-28.2	0.4	94	3°	Ci.		
	2	- 53	- 10	S b W	2.3		-27.3	0.5	94	10°	Cist.		
	4	- 53	- 12	S b W	4.0	61.1	-26.5	0.5	94	10°	Cist.		
	6	- 53	- 15	SSE	4.2		-24.9	0.5	94	10	Str.		
	8	- 53	- 17	S b E	8.2	59.6	-21.8	0.7	93	10	Str.		
	10	- 53	- 20	S	4.5		-18.1	1.0	93	10	Str.		
	Mn.	- 53	- 23	S b W	6.3	58.8			93	10	Str.		
Novb. 13.	2	85 53	66 25	S b W	8.5				98	10	Str.		[ ]
	4	- 54	- 28	SSW	6.2	58.3			93				
	6	- 54	- 30	SSW	6.8				90				
	8	- 54	- 33	S b W	8.8	58.1	-20.4	0.8	88	0			
	10	- 54	- 35	S b W	7.5		-21.2	0.7	87	3°	Ci.		
	Noon	- 54	- 38	S	8.4	58.2	-23.6	0.6	88	0			
	2	- 54	- 40	S b W	5.9		-24.9	0.5	88	0			
	4	- 54	- 43	S b W	5.5	58.6	-25.8	0.5	88	0			
	6	- 54	- 45	S b W	5.1		-26.3	0.5	88	0			
	8	- 55	- 45	S b W	4.7	58.8	-26.9	0.5	87	0			
	10	- 55	- 46	S b W	4.6		-27.7	0.4	87	0			
	12.15	- 55	- 46	S	3.8	59.2			87	0			
Novb. 14.	2	85 55	66 47	S	3.6				86	0			[ ]
	4	- 55	- 47	S	3.4	59.2			86	0			
	6	- 55	- 47	S	4.2				86	0			
	8	- 55	- 48	S b E	2.7	59.1	-29.1	0.4	86	0			
	10	- 55	- 48	SSE	2.3		-29.8	0.3	85	0			
	Noon	- 55	- 48	SSE	2.7	59.1	-30.5	0.3	85	0			
	2	- 56	- 49	SSE	2.9		-30.6	0.3	85	0			
	4	- 56	- 49	SSE	3.2	59.0	-30.3	0.3	85	0			
	6	- 56	- 49	SSE	2.4		-29.9	0.3	85	0			
	8	- 56	- 45	SE b S	2.4	58.8	-31.2	0.3	85	0			
	10	- 56	- 42	SE b E	1.9		-30.5	0.3	84	0			
	Mn.	- 56	- 38	E b S	2.2	58.6			86	0			
Novb. 15.	2	85 56	66 35	E b S	2.8				86	10	Cist.		[ ]
	4	- 56	- 31	E	2.8	57.9			86	0			
	6	- 56	- 28	E	2.7				86	0			
	8	- 56	- 24	E	2.2	57.6	-30.3	0.3	85	0			
	10	- 56	- 21	E b S	2.2		-31.3	0.3	85	0			
	Noon	- 56	- 17	E b S	2.4	57.4	-30.3	0.3	85	10°	Cist.		
	2	- 56	- 14	E	2.0		-30.1	0.3	86	0			
	4	- 56	- 10	NE b E	2.7	56.9	-28.1	0.4	86	10	Str.		

<sup>1</sup> Driving snow from the ground.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Novb. 15.	6	85° 56'	66° 7'	NE <sup>b</sup> E	3.2		-28.9	0.4	87	0			*—
	8	- 56	- 6	NE <sup>b</sup> E	3.5	756.1	-25.6	0.5	89	10°	Cist.		
	10	- 56	- 5	NE <sup>b</sup> N	3.3		-26.2	0.5	89	10°	Str.		
	Mn.	- 56	- 3	NE <sup>b</sup> N	4.0	54.7			89	9	Str.		
Novb. 16.	2	85 56	66 2	NE <sup>b</sup> N	5.0				90	9	Str.		*° *° *°
	4	- 55	- 0	NE <sup>b</sup> N	4.4	52.6			90	10	Str.		
	6	- 55	65 59	NE <sup>b</sup> N	5.0				81	10	Str.		
	8	- 55	- 57	N <sup>b</sup> E	5.0	50.4	-24.1	0.6	90	10°	Cist.		
	10	- 55	- 56	NE <sup>b</sup> N	5.0		-25.4	0.5	88	10°	Cist.		
	Noon	- 55	- 54	NE	4.7	49.4	-25.3	0.5	88	10°	Cist.		
	2	- 55	- 53	NNE	3.8		-25.6	0.5	89	10°	Cist.		
	4	- 55	- 51	NNE	3.4	49.0	-26.9	0.5	88	10°	Cist.		
	6	- 55	- 50	NNE	2.9		-27.7	0.4	88	0			
	8	- 55	- 48	NE	2.5	48.7	-29.8	0.3	87	0			
	10	- 55	- 47	E <sup>b</sup> N	1.3		-30.4	0.3	86	0			
	Mn.	- 55	- 45	E <sup>b</sup> S	1.4	48.9			86	0			
Novb. 17.	2	85 55	65 44		0				86	0			*° *° *°
	4	- 55	- 42	S <sup>b</sup> W	0.0	48.9			85	0			
	6	- 55	- 41	SW <sup>b</sup> W	2.0				84	0			
	8	- 55	- 39	S <sup>b</sup> W	1.8	48.4	-33.7	0.2	85	0			
	10	- 54	- 38	S <sup>b</sup> W	1.8		-34.3	0.2	85	0			
	Noon	- 54	- 36	S <sup>b</sup> W	2.0	48.0	-33.8	0.2	85	0			
	2	- 54	- 35	S <sup>b</sup> W	0.0		-33.6	0.2	85	0			
	4	- 54	- 33	S <sup>b</sup> W	1.6	47.3	-33.1	0.2	85	0			
	6	- 54	- 32	S <sup>b</sup> W	0.0		-33.5	0.2	85	0			
	8	- 54	- 30	SW <sup>b</sup> S	2.0	46.9	-34.4	0.2	85	0			
	10	- 54	- 29	SW <sup>b</sup> S	1.8		-34.4	0.2	84	0			
	Mn.	- 54	- 27	SSW	1.9	47.1			84	0			
Novb. 18.	2	85 54	65 26	SSW	0.0					0			Str.
	4	- 54	- 25	W <sup>b</sup> N	1.6	46.3			83	0			
	6	- 54	- 23		0				82	0			
	8	- 54	- 22	W <sup>b</sup> N	1.8	46.3	-35.9	0.2	82	0			
	10	- 54	- 20	W <sup>b</sup> S	2.0		-37.1	0.2	82	0			
	Noon	- 54	- 19	W <sup>b</sup> N	1.8		-37.1	0.2	80	0			
	2	- 54	- 17	NW <sup>b</sup> N	2.2		-36.9	0.2	80	0			
	4	- 53	- 16	NW <sup>b</sup> N	2.0	47.7	-36.1	0.2	80	0			
	6	- 53	- 14	WNW	2.2		-37.1	0.2	80	0			
	8	- 53	- 11	NW <sup>b</sup> W	2.1	48.4	-37.6	0.1	79	0			
	10	- 53	- 8	NW <sup>b</sup> W	1.7		-38.0	0.1	80	0			
	Mn.	- 53	- 6	NW <sup>b</sup> W	2.6	48.8			79	0			
Novb. 19.	2	85 53	65 3	NW <sup>b</sup> W	2.3				79	0			Str. Cist. Str. Cist.
	4	- 53	- 1	W <sup>b</sup> N	1.3	48.3			80	10°	Str.		
	6	- 53	64 58	W <sup>b</sup> N	3.0				81	10°	Cist.		
	8	- 53	- 56	NW	3.4	47.7	-33.1	0.2	82	10°	Str.		
	10	- 52	- 53	NW <sup>b</sup> N	2.1		-33.3	0.2	81	10°	Cist.		
	Noon	- 52	- 51	NW <sup>b</sup> N	1.5	47.3	-34.2	0.2	81	0			
	2	- 52	- 48	NW <sup>b</sup> N	1.8		-35.9	0.2	81	0			
	4	- 52	- 45	N <sup>b</sup> W	2.0	47.3	-36.9	0.2	80	0			
	6	- 52	- 43	NNW	2.4		-37.3	0.2	80	0			
	8	- 52	- 40	N <sup>b</sup> W	3.2	47.1	-38.2	0.1	80	0			
	10.30	- 52	- 38	NNW	2.7		-38.8	0.1	80	0			
	Mn.	- 52	- 35	N <sup>b</sup> W	2.4	47.6			79	0			
Novb. 20.	2	85 51	64 33	NNW	3.2				79	0			
	4	- 51	- 30	NW <sup>b</sup> N	4.0	48.8			79	0			
	6	- 51	- 27	NNW	4.7				79	0			
	8.15	- 51	- 25	NW <sup>b</sup> N	4.4	49.9	-38.9	0.1	80	0			
	10	- 51	- 22	NW <sup>b</sup> N	4.1		-38.8	0.1	79	0			
	Noon	- 51	- 20	NW <sup>b</sup> N	5.6	51.7	-39.0	0.1	79	0			

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Novb. 20.	2	85° 51'	64° 18'	N <sup>b</sup> W	4.8		-39.2	0.1	79	0			1 2
	4	- 51	- 18	NNW	3.4	753.4	-39.2	0.1	79	0			
	6	- 50	- 18	NNW	3.5		-39.4	0.1	79	0			
	8	- 50	- 17	NNW	2.8	55.2	-38.9	0.1	79	0			
	10	- 50	- 17	N <sup>b</sup> W	3.3		-40.0	0.1	79	0			
	Mn.	- 50	- 17	N <sup>b</sup> W	3.3	56.7			79	0			
Novb. 21.	2	85 50	64 17	NW	3.4				78	0			*°
	4	- 50	- 16	WNW	3.4	58.3			78	0			
	6	- 50	- 16	NW	3.8				78	0			
	8	- 50	- 16	W <sup>b</sup> N	3.9	59.1	-42.2	0.1	78	0			
	10	- 49	- 15	WNW	5.0		-41.2	0.1	79	0			
	Noon	- 49	- 15	NW	4.8	59.3	-39.8	0.1	79	0			
	2	- 49	- 15	NW	4.8		-39.8	0.1	79	0			
	4	- 49	- 14	NW <sup>b</sup> N	5.4	60.2	-39.2	0.1	79	0			
	6	- 49	- 14	NW <sup>b</sup> N	4.2		-39.2	0.1	79	0			
	8	- 49	- 14	NW <sup>b</sup> N	5.0	61.2	-38.2	0.1	79	0			
	10	- 49	- 13	N <sup>b</sup> W	4.7		-38.1	0.1	80	0			
	Mn.	- 48	- 13	NNW	3.6	62.8			80	0			
Novb. 22.	2	85 48	64 13	N	3.4				79	0			
	4	- 48	- 13	N	3.5	64.8			79	0			
	6	- 48	- 12	NNE	3.0				79	0			
	8	- 48	- 12	NE	2.5	67.3	-42.3	0.1	78	0			
	10	- 48	- 12	NE	2.5		-42.9	0.1	78	0			
	Noon	- 48	- 11	NE	2.5	69.6	-43.2	0.1	78	0			
	2	- 48	- 11	NNW	1.6		-43.5	0.1	78	0			
	4	- 47	- 11	NNE	2.4	71.9	-43.3	0.1	78	0			
	6	- 47	- 10	NE	2.3		-43.8	0.1	78	0			
	8	- 47	- 8	NE	1.5	71.9	-43.8	0.1	78	0			
	10	- 47	- 6	NE <sup>b</sup> E	2.0		-43.8	0.1	78	0			
	Mn.	- 48	- 4	NE	1.7	71.6			79	0			
Novb. 23.	2	85 48	64 2	NNW	1.5				78	0			
	4	- 48	- 0	NNE	2.0	71.4			78	0			
	6	- 48	63 58	NNE	1.5				78	0			
	8	- 48	- 55	ENE	2.4	70.3	-41.6	0.1	78	0			
	10	- 48	- 53	ENE	2.5		-40.4	0.1	78	0			
	Noon	- 48	- 51	NNW	2.0	69.3	-40.9	0.1	79	0			
	2	- 48	- 48	NE	2.6		-40.2	0.1	79	0			
	4	- 48	- 45	ENE	2.7	68.5	-39.5	0.1	79	0			
	6	- 48	- 42	E <sup>b</sup> N	2.0		-39.2	0.1	79	0			
	8	- 48	- 39	E	2.4	68.1	-38.6	0.1	78	0			
	10	- 48	- 36	SE	4.2		-34.7	0.2	81	10°	Cist.		
	Mn.	- 48	- 32	ESE	3.2	68.7			80	0			
Novb. 24.	2	85 48	63 29	SE <sup>b</sup> E	3.0				80	0			
	4	- 48	- 26	SE <sup>b</sup> E	2.8	69.4			80	0			
	6	- 48	- 23	ESE	3.0				80	0			
	8	- 48	- 20	ESE	2.7	71.4	-36.8	0.2	80	0			
	10	- 48	- 17	E	2.2		-37.8	0.1	80	10°	Cist.		
	Noon	- 48	- 13	ESE	2.8	72.6	-35.5	0.2	80	10°	Cist.		
	2	- 48	- 10	E	1.8		-36.0	0.2	80	0			
	4	- 48	- 7	E	2.5	73.8	-35.3	0.2	80	10°	Cist.		
	6	- 48	- 4	E	2.6		-34.6	0.2	81	0			
	8	- 48	- 1	ENE	2.9	75.3	-35.7	0.2	81	0			
	10	- 48	62 58	NE <sup>b</sup> E	2.7		-34.5	0.2	81	10°	Cist.		
	Mn.	- 48	- 55	E <sup>b</sup> N	3.2	76.4			81	6°	Str.		

<sup>1</sup> The Milky Way visible. <sup>2</sup> Unusually clear.



1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s					Am.	Form.	Dir.	
Novb. 25.	2	85° 48'	62° 51'	ENE	3.4				83	0			
	4	- 48	- 48	NNE	2.4	777.8			82	0			
	6	- 48	- 45	NE b N	3.4				82	0			
	8	- 48	- 42	NNE	3.1	78.7	-35.7	0.2	81	0			
	10	- 47	- 39	NNE	4.0		-36.1	0.2	80	0			
	Noon	- 47	- 36	N b E	4.0	79.6	-35.9	0.2	80	0			
	2	- 47	- 30	N	4.4		-35.4	0.2	81	10°	Cist.		
	4	- 46	- 25	N	4.2	80.2	-32.9	0.2	82	10°	Cist.		
	6	- 46	- 19	N	5.0		-32.1	0.3	82	10°	Cist.		
	8	- 45	- 14	N	4.6	80.3	-34.1	0.2	82	0			
	10.15	- 45	- 8	N	4.1		-34.8	0.2	82	0			
	Mn.	- 44	- 3	N	4.0	80.3			82	0			
Novb. 26.	2	85 44	61 58	N	4.3				81	0			
	4	- 43	- 52	N	4.0	80.2			82	0			
	6	- 42	- 47	N	4.0				81	0			
	8	- 42	- 42	NNW	4.9	78.6	-35.6	0.2	81	0			
	10	- 41	- 36	NW b N	6.5		-34.7	0.2	81	0			
	Noon	- 40	- 31	NW b N	6.7	76.6	-34.7	0.2	81	0			
	2	- 40	- 26	NNW	6.6		-34.6	0.2	82	10°	Cist.		m <sup>o</sup> 1
	4	- 39	- 20	NW b N	8.8	73.6	-32.2	0.3	82	10°	Cist.		2
	6	- 39	- 15	NW b N	10.7		-31.0	0.3	83	10°	Cist.		
	8	- 38	- 9	NW b N	12.4	69.3	-28.4	0.4	84	10	Str.		
	10	- 37	- 4	NW b N	13.3		-25.2		10	Str.			
	Mn.	- 37	60 59	NW b N	14.5	63.7			10	Str.			
Novb. 27.	2	85 36	60 53	NW b N	15.5					10	Str.		* <sup>2</sup>
	4	- 36	- 48	N b W	11.9	60.6				10	Str.		3
	6	- 35	- 42	N b W	14.9					10	Str.		* <sup>2</sup>
	8	- 35	- 37	N	12.3	57.9	-19.0	0.9		10	Str.		
	10	- 34	- 32	N	13.4		-18.7	0.9	90	10	Str.		* <sup>2</sup> (?)
	Noon	- 33	- 26	N	10.9	55.9	-18.2	0.9	89	10	Str.		* <sup>2</sup> (?)
	2	- 33	- 21	N	9.9		-19.1	0.8	87	10	Str.		* <sup>2</sup>
	4	- 32	- 16	N	10.0	54.2	-19.8	0.8	87	10	Str.		* <sup>2</sup>
	6	- 32	- 10	N	9.9		-20.2	0.8	87	10	Cist.		* <sup>2</sup>
	8	- 31	- 6	N	9.2	51.8	-20.4	0.7	87	10	Cist.		* <sup>2</sup>
	10	- 31	- 2	N b E	9.3		-20.6		88	10	Str.		* <sup>2</sup>
	Mn.	- 31	59 58	N b W	7.0	50.0			86	10	Str.		* <sup>2</sup>
Novb. 28.	2	85 30	59 53	N b W	7.0				85	10	Str.		* <sup>2</sup>
	4	- 30	- 49	N	7.4	47.8			84	10	Str.		* <sup>2</sup>
	6	- 30	- 45	N	7.0				84	10	Str.		* <sup>o</sup>
	8	- 29	- 41	N	6.0	45.5	-20.9	0.7	84	10	Str.		
	10	- 29	- 36	N b E	6.5		-21.1	0.7	83	10	Str.		
	Noon	- 29	- 32	N b E	6.8	43.6	-21.1	0.8	90	10	Str.		
	2	- 28	- 28	N	4.6		-21.9	0.7	93	10	Str.		
	4.15	- 28	- 24	N b W	5.2	42.1	-23.2	0.6	82	1	Cicu.		
	6	- 28	- 21	N	4.2		-24.8	0.5	82	10°	Ci.		
	8	- 28	- 19	N	2.8	40.7	-25.0	0.5	83	10°	Cist.		
	10	- 28	- 18	N	2.3		-24.9	0.5	80	10	Cist.		* <sup>o</sup>
	Mn.	- 28	- 16	N	0.0	39.0			81	10	Cist.		
Novb. 29.	2	85 28	59 14		0				81	10	Str.		* <sup>o</sup>
	4	- 28	- 13		0	38.1			80	10	Str.		* <sup>o</sup>
	6	- 28	- 11	SE b E	2.2				80	6	Cist.		* <sup>o</sup>
	8	- 28	- 9	SE	3.3	38.1	-25.1	0.5	80	10	Cist.		* <sup>o</sup>
	10	- 28	- 7	SSE	5.5		-25.4	0.5	79	10	Cist.		* <sup>o</sup>
	Noon	- 28	- 6	SE b S	4.4	39.9	-26.3	0.5	79	10	Cist.		* <sup>o</sup> 4

<sup>1</sup> m. horiz. <sup>2</sup> 4 p. m. to midn. Driving snow from the ground. <sup>3</sup> Driving snow from the ground. <sup>4</sup> U.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Novb. 29.	2	85° 28'	59° 4'	SE <sup>b</sup> E	3.1		-28.5	0.3	78	10°	Ci.		
	4	- 28	- 3	ESE	2.8	741.6	-30.7	0.3	79	0			
	6	- 28	- 1	E	2.8		-32.2	0.3	78	0			
	8	- 28	58 59	E <sup>b</sup> N	3.1	42.6	-32.9	0.2	77	0			
	10	- 28	- 57	E <sup>b</sup> N	2.6		-33.4	0.2	78	0			
	Mn.	- 28	- 56	E	2.4	44.2			77	0			
Novb. 30.	2	85 28	58 54	E	3.0				78	0			
	4	- 28	- 52	E	3.0	45.1			78	5°	Ci.		
	6	- 28	- 51	E	2.4				77	0			
	8	- 28	- 49	E	2.6	46.5	-35.9	0.2	77	0			1
	10	- 28	- 47	ESE	2.1		-36.3	0.2	76	1°	Ci.		2
	Noon	- 28	- 46	SE	1.8	47.8	-37.7	0.1	76	2°	Ci.		
	2	- 28	- 44	E	2.4		-37.5	0.2	76	0			
	4	- 29	- 42	E	2.0	49.4	-37.6	0.1	76	2°	Ci.		
	6	- 29	- 41	E	1.8		-37.3	0.2	76	4°	Ci.		
	8	- 29	- 39	E	1.5	50.7	-37.1	0.2	76	5°	Ci.		
	10	- 29	- 38	E	1.4		-37.1	0.2	76	10°	Ci.		
	Mn.	- 28	- 37	E	1.8	51.7			76	5°	Ci.		
Decb. 1.	2	85 28	58 36	E	1.4				77	0			
	4	- 28	- 34	E	1.5	53.4			76	4°	Ci.	W	
	6	- 28	- 33	E	1.4				76	0			
	8	- 28	- 32	ESE	1.5	54.4	-36.3	0.2	76	8°	Ci.		
	10	- 28	- 31	SE	0.0		-37.0	0.2	76	0			
	Noon	- 28	- 29	SE	1.5	55.9	-38.2	0.1	76	10°	Ci. <sup>o</sup>		
	2	- 28	- 19	SE	2.2		-37.1	0.2	76		Ci.		
	4	- 28	- 29	SE <sup>b</sup> S	2.4	56.6	-36.7	0.2	77	10°	Cicu.		
	6	- 28	- 23	NNE	0.0		-35.9	0.2	76	10°	Ci.		
	8	- 28	- 21	SE	1.7	56.6	-36.7	0.2	76	10°	Ci.		
	10	- 28	- 0	SSE	1.4		-36.0	0.2	76	10°	Cicu.	S	3
	Mn.	- 28	57 58	SSE	0.0	56.9			76	10°	Cist.	S	
Decb. 2.	2	85 28	57 56	S	1.6				76	10°	Cicu.	S	
	4	- 28	- 55	E <sup>b</sup> S	2.2	57.0			77	10°	Cicu.	S	
	6	- 28	- 53	SE <sup>b</sup> E	2.0				76	10°	Cicu.		
	8	- 28	- 52	SSE	1.2	56.7	-36.6	0.2	76	0			
	10	- 28	- 50	SE	1.7				76	0			
	Noon	- 28	- 49	SE	1.7	57.9	-41.7	0.1	76	0			
	2	- 28	- 47	S <sup>b</sup> E	2.2		-41.3	0.1	75	0			
	4	- 28	- 46	SSE	1.9	57.2	-41.1	0.1	75	0			
	6	- 28	- 44	E <sup>b</sup> S	2.4		-41.6	0.1	75	0			
	8	- 28	- 43	SE <sup>b</sup> E	2.8	56.4	-41.2	0.1	75	0			
	10	- 28	- 41	SE <sup>b</sup> E	4.1		-39.4	0.1	75	10°	Ci. Cist.		
	Mn.	- 29	- 40	SE <sup>b</sup> E	3.8	55.1			76	5°	Ci.		
Decb. 3.	2	85 29	57 38	SE <sup>b</sup> E	4.4				76	10°	Ci.		
	4	- 29	- 37	SE	5.3	53.8			77	0			
	6	- 29	- 35	ESE	4.2				76	10°	Cist.		4
	8	- 29	- 34	E <sup>b</sup> S	5.5	52.6	-35.0	0.2	76	2	Ci.	ca. NNW	5
	10	- 29	- 32	SE <sup>b</sup> E	7.7		-32.9	0.2	76	10	Cust.		
	Noon	- 29	- 31	SE	9.3	51.6	-31.0	0.3	77	10	Str.		
	2	- 29	- 29	E <sup>b</sup> S	5.8		-31.7	0.3	78	9°	Ci.	ca. NE	6
	4	- 29	- 28	E <sup>b</sup> S	5.8	51.8	-32.9	0.2	77	10°	Cicu.		
	6	- 29	- 25	E <sup>b</sup> S	5.2		-32.9	0.2	77	10°	Cist.		
	8	- 29	- 21	E <sup>b</sup> S	5.2	52.0	-32.1	0.3	77	0			
	10	- 29	- 16	E	6.3		-31.9	0.3	77	0			7
	Mn.	- 29	- 12	E	6.1	53.1			77	0			8

<sup>1</sup> Some ci. in N and NW. <sup>2</sup> Cleaned the screen from \* and —. <sup>3</sup> 9.30 p. m. Cicu. in SSW. <sup>4</sup> U. <sup>5</sup> Faint U. <sup>6</sup> 1 p. m. Cicu. in NE. <sup>7</sup> U. <sup>8</sup> A ring about 15° from the centre round the moon with a shining lump in the lower edge.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Decb. 4.	2	85° 29'	57° 8'	E b S	6.3								1
	4	- 29	- 3	E b S	5.7	754.4				0			
	6	- 29	56 59	E	4.9				77	0			
	8	- 29	- 55	E	4.8	55.1	-33.5	0.2	77	0			2
	10	- 29	- 50	E	6.5		-33.1	0.2	77	0			
	Noon	- 29	- 46	E	5.3	55.7	-32.9	0.2	77	0			
	2.15	- 29	- 41	E	5.5		-33.2	0.2	77	0			3
	4	- 29	- 38	E b N	5.2	56.3	-33.4	0.2	76	0			
	6	- 29	- 33	E b N	5.9		-33.6	0.2	77	0			
	8	- 29	- 29	E b N	6.5	56.5	-33.6	0.2	77	0			
	10	- 29	- 25	E b N	5.5		-33.1	0.2	77	0			
	Mn.	- 29	- 20	E b N	5.7	57.0			77	0			
Decb. 5.	2	85 29	56 16	E b N	4.8				78	0			
	4	- 29	- 12	E b N	5.0	57.0			77	0			
	6	- 29	- 7	E b N	4.8				78	0			
	8	- 30	- 3	NE	4.0	56.6	-35.2	0.2	78	2°	Ci.	NE	NE
	10	- 30	55 59	NE	5.8		-33.2	0.2	77	10°	Cust.	NE	
	Noon	- 30	- 54	NE b E	5.7	56.7	-33.8	0.2	77	3°	Cicu.	NE	
	2	- 29	- 51	NE b E	5.2		-32.7	0.2	79	10°	Cist.		
	4	- 29	- 47	NE b E	6.0	56.9	-31.4	0.3	78	10°	Cist.		
	6	- 29	- 43	NE b E	5.4		-32.2	0.3	78	0			
	8	- 29	- 39	NE b E	6.3	57.1	-32.9	0.2	78	0			
	10	- 29	- 35	NE b E	5.1		-33.1	0.2	78	0			
	Mn.	- 29	- 31	NE b E	6.3	57.5			78	0			
Decb. 6.	2	85 29	55 27	NE b E	6.0				78	0			
	4	- 29	- 23	NE	4.8	57.9			78	0			
	6	- 28	- 19	NE b E	5.3				78	0			
	8	- 28	- 15	NE b N	5.2	58.8	-34.8	0.2	78	0			
	10	- 28	- 12	NE b N	5.1		-34.8	0.2	78	0			
	Noon	- 28	- 8	NE b N	4.3	59.6	-35.2	0.2	78	0			
	2	- 28	- 4	NE b N	3.8		-35.3	0.2	79	0			NE
	4	- 28	- 0	NE b N	5.3	60.4	-31.6	0.3	79	0	Cist.		
	6	- 28	54 56	NNE	3.3		-33.6	0.2	79	10°	Ci. Cist.		
	8	- 28	- 52	NE b N	4.4	61.2	-33.6	0.2	79	8°	Cist.		
	10	- 27	- 48	NE b N	3.3		-34.1	0.2	79	10°	Cist. Cicu.	NE	
	Mn.	- 27	- 44	ENE	4.5	63.6			79	0			
Decb. 7.	2	85 27	54 40	NE	3.4				77	0			
	4	- 27	- 36	NNE	3.1	64.4			78	0			
	6	- 27	- 33	NNE	3.0				77	0			
	8	- 27	- 29	N b E	2.8	65.2	-38.5	0.1	77	0			
	10	- 27	- 25	NNE	3.0		-39.2	0.1	77	0			
	Noon	- 27	- 21	NNE	3.4	66.6	-39.1	0.1	77	0			
	2	- 27	- 19	NNE	3.8		-39.5	0.1	77	0			4
	4	- 27	- 18	NNE	2.6	67.8	-39.6	0.1	77	0			
	6	- 27	- 17	N b E	2.4		-39.7	0.1	77	0			
	8	- 27	- 16	N	2.2	68.6	-39.9	0.1	77	0			
	10	- 26	- 15	N	2.4		-39.9	0.1	77	0			
	Mn.	- 26	- 13	NW	2.2	68.9			77	0			
Decb. 8.	2	85 26	54 12	N	2.4				76	0			
	4	- 26	- 11	N	1.7	68.9			77	0			
	6	- 26	- 10		0				76	0			
	8	- 26	- 9	E	0.0	68.5	-40.2	0.1	76	0			5
	10	- 26	- 8		0		-39.9	0.1	76	0			
	Noon	- 26	- 6	SW	1.4	68.4	-39.7	0.1	76	0			

<sup>1</sup> 8, 10 a. m. and noon. Faint ☐. <sup>2</sup> 6, 8 p. m. Faint ☐ with rainbow-coloured patch underneath. <sup>3</sup> 10 p. m. and midn. ☐ with tangent bow and pyramid underneath. <sup>4</sup> 2, 10 p. m. Unusually clear. <sup>5</sup> Bank on the horiz. between W and NE.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Decb. 8.	2	85° 26'	54° 5'	SW	1·8		-37·9	0·1	77	10°	Cicu.	NNW	
	4	- 26	- 4	SSW	1·6	768·2	-37·4	0·2	77	0			
	6	- 26	- 3	SW	1·6		-37·8	0·1	77	0			
	8	- 26	- 2	S	1·8	67·9	-38·6	0·1	77	0			
	10	- 26	- 1	S	2·4		-39·1	0·1	76	0			
	Mn.	- 26	53 59	S	0·0	67·9			76	0			
Decb. 9.	2	85 26	53 58	S	1·8				77	0			
	4	- 26	- 57	E	1·7	67·8			76	0			
	6	- 26	- 56	ESE	2·0				77	0			
	8	- 26	- 55	ESE	2·1	67·5	-38·3	0·1	77	0			
	10	- 25	- 54	ESE	2·2		-39·0	0·1	77	0			
	Noon	- 25	- 53	ESE	2·2	67·3	-38·4	0·1	77	0			
	2	- 25	- 51	E <sup>b</sup> S	2·6		-38·4	0·1	77	0			
	4	- 25	- 50	E	3·2	65·8	-37·6	0·1	77	0			
	6	- 25	- 39	E	3·5		-36·9	0·2	77	0			
	8	- 25	- 33	E	4·7	63·8	-34·9	0·2	78	0			
	10	- 25	- 27	E <sup>b</sup> N	5·2		-35·9	0·2	77	0			
	Mn.	- 25	- 21	E	6·5	61·3	-32·8			0			
Decb. 10.	2	85 25	53 15	E <sup>b</sup> N	6·2		-31·7	0·3	79	10°	Str.		
	4	- 25	- 9	E <sup>b</sup> N	6·6	59·7	-30·0			10	Str.		
	6	- 25	- 3	E <sup>b</sup> N	7·3		-30·4	0·3	78	10°	Cist.		
	8	- 25	52 56	E <sup>b</sup> N	7·4	58·2	-30·3	0·3	79	10°	Cist.		
	10	- 25	- 50	E <sup>b</sup> N	8·6		-30·0			10°	Cist.		
	Noon	- 25	- 44	E <sup>b</sup> N	10·2	56·4	-29·8			10°	Cist.		
	2	- 25	- 38	E <sup>b</sup> N	8·8		-29·3			10°	Cist.		
	4	- 25	- 32	E <sup>b</sup> N	9·2	55·4	-27·9			10°	Cist.		
	6	- 25	- 26	E <sup>b</sup> N	10·9		-27·1			10	Str.		
	8	- 25	- 20	E <sup>b</sup> N	8·7	54·7	-27·9			10°	Cist.		
	10.15	- 25	- 13	E <sup>b</sup> N	7·7		-27·8			10°	Cist.		
	Mn.	- 26	- 8	E <sup>b</sup> N	8·0	54·2				10	Str.		
Decb. 11.	2	85 26	52 2	E	8·0					7	Cist.		
	4	- 26	51 55	E	8·5	53·9				10	Str.		
	6	- 26	- 50	E	8·2					10	Str.		
	8	- 26	- 43	E	8·1	53·3	-25·6			10	Str.		
	10	- 26	- 37	E <sup>b</sup> N	7·5		-25·5	0·5	80	10	Str.		
	Noon	- 26	- 31	E	8·0	53·0	-25·3	0·5	78	10	Str.		
	2	- 26	- 25	E <sup>b</sup> N	6·6		-26·1	0·5	85	10	Cist.		
	4	- 26	- 19	E <sup>b</sup> N	7·3	52·2	-25·8	0·5	78	10	Str.		
	6	- 26	- 13	E <sup>b</sup> N	6·3		-25·6	0·5	78	0			
	8	- 26	- 7	E <sup>b</sup> N	6·0	51·8	-25·8	0·5	78	10°	Cist.		
	10	- 26	- 1	E <sup>b</sup> N	4·6		-25·7	0·5	82	10°	Cist.		
	Mn.	- 26	50 54	ENE	4·4	51·6			75	10°	Cist.		*°
Decb. 12.	2	85 26	50 48	ENE	3·1				81	0			
	4	- 26	- 42	ENE	2·3	51·6			81	0			
	6	- 26	- 36	ENE	2·2				82	0			
	8	- 26	- 30	NE	3·2	51·8	-24·2	0·5	82	10°	Str.		
	10	- 26	- 24	NE <sup>b</sup> E	2·2		-23·1	0·6	83	10°	Cist.		*°
	Noon	- 25	- 19	NE <sup>b</sup> E	2·7	52·0	-22·8	0·6	83	10°	Cist.		
	2	- 25	- 15	N <sup>b</sup> E	2·4		-22·3	0·6	84	10°	Cist.		
	4	- 25	- 11	N	3·0	52·6	-22·1	0·6	84	10°	Cist.		
	6	- 25	- 7	NNE	2·3		-22·9	0·6	84	10°	Cist.		*°
	8	- 25	- 3	NNE	2·2	53·6	-23·0	0·6	87	10°	Cist.		*°
	10	- 25	49 59	NE <sup>b</sup> E	2·1		-22·3	0·6	87	10°	Cicu.		*°
	Mn.	- 25	- 55	NE <sup>b</sup> E	1·8	55·0			87	10°	Cist.	W	*°

<sup>1</sup> 8, 10 p. m. Unusually clear.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Decb. 13.	2	85° 25'	49° 51'	NE	1.6				84	10°	Cist.		
	4	- 25	- 47		0	757.2			85	0			
	6	- 25	- 43	NW	1.4				85	0			*°
	8	- 25	- 39	N <sup>b</sup> E	3.2	57.7	-26.5	0.5	84	0			*° <sup>1</sup>
	10	- 25	- 35	N	1.8		-26.7	0.4	84	10°	Cist.		*°
	Noon	- 25	- 31	N	0.0	58.8	-26.1	0.5	84	10°	Cist.		*°
	2	- 25	- 27	NNW	2.6		-22.2	0.6	84	10	Str.		*°
	4	- 25	- 23	NNW	1.8	59.9	-20.9	0.7	86	10	Str.		*°
	6	- 25	- 19	NNW	2.4		-20.5	0.8	86	10	Str.		*°
	8	- 25	- 15	NNW	2.7	60.4	-20.5	0.8	86	10	Str.		*°
	10	- 25	- 11	N <sup>b</sup> W	2.4		-21.0	0.7	86	10	Str.		*°
	Mn.	- 25	- 7	NNW	1.2	61.0			85	10	Cist.		*°
Decb. 14.	2	85 24	49 3	NW	1.5				85	10°	Cist.		
	4	- 24	48 59	NW	1.7	61.2			85	0			
	6	- 24	- 55	WNW	2.3				84	10	Str.		*°
	8	- 24	- 51	W	2.8	62.1	-26.5	0.5	84	0			
	10	- 24	- 47	WSW	2.3		-29.7	0.3	84	0			
	Noon	- 24	- 43	WSW	1.7	62.8	-32.2	0.3	81	0			
	2	- 24	- 39	WNW	2.0		-31.9	0.3	81	0			
	4	- 24	- 41		0	63.7	-32.3	0.3	81	0			[ <sup>2</sup>
	6	- 24	- 40		0		-29.8	0.3	81	0	Cist.		[ <sup>2</sup>
	8	- 24	- 40	SE	0.0	63.9	-28.6	0.3	81	0	Cist.		*°
	10	- 24	- 39	SE	2.0		-27.2	0.4	83	5	Cist.		*°
	Mn.	- 24	- 39	SE	2.0	64.0			83	10°	Cist.		*°
Decb. 15.	2	85 24	48 38	SE <sup>b</sup> E	3.6				83	10°	Cist.		*°
	4	- 24	- 38	SE <sup>b</sup> S	3.4	64.0			82	10	Str.		
	6	- 24	- 37	SE	3.9				82	8	Str.		*°
	8	- 24	- 37	SE <sup>b</sup> S	4.8	63.9	-26.9	0.4	82	10	Str.		*°
	10	- 24	- 36	SE <sup>b</sup> S	5.6		-26.1	0.5	83	10	Str.		*° <sup>2</sup>
	Noon	- 24	- 36	SE <sup>b</sup> S	5.1	63.1	-25.1	0.5	83	10	Cist.		*°
	2	- 24	- 35	SE <sup>b</sup> S	5.4		-24.4	0.5	83	10	Str.		
	4	- 24	- 34	SE	5.8	62.4	-24.3	0.5	83	10	Str.		
	6	- 24	- 34	SE	7.2		-24.6	0.5	83	10	Str.		
	8	- 23	- 33	SE	6.8	59.8	-23.7	0.5	83	10	Str.		*° <sup>2</sup>
	10	- 23	- 33	SE <sup>b</sup> E	7.4		-23.1	0.6	83	10	Str.		*° <sup>2</sup>
	Mn.	- 23	- 32	SE <sup>b</sup> E	6.0	58.0			84	10	Str.		
Decb. 16.	2	85 23	48 32	E	7.2				84	10	Str.		*°
	4	- 23	- 31	E <sup>b</sup> N	7.8	57.0			83	10	Str.		
	6	- 23	- 31	ENE	7.8				83	10	Str.		*°
	8	- 23	- 30	NE <sup>b</sup> E	7.3	58.6	-26.9	0.4	82	10	Str.		*°
	10	- 23	- 30	NE	6.4		-29.0	0.3	82	10°	Cist.		
	Noon	- 23	- 29	NE	5.4	62.4	-31.0	0.3	81	0			
	2	- 23	- 29	NE	4.8		-32.8	0.2	80				
	4	- 23	- 28	NE	5.8	63.1	-33.8	0.2	80	0			
	6	- 23	- 28	NE	5.3		-34.3	0.2	79	0			
	8	- 23	- 27	NE	4.5	64.1	-34.8	0.2	79	0			
	10	- 23	- 27	NE	4.8		-35.4	0.2	79	0			
	Mn.	- 23	- 26	NE <sup>b</sup> N	3.8	64.5			79	0			
Decb. 17.	2	85 23	48 26	NE <sup>b</sup> N	4.0				79	0			
	4	- 22	- 25	NE <sup>b</sup> N	4.0	64.6			79	0			
	6	- 22	- 25	NE	4.3				80	0			
	8	- 22	- 24	ENE	4.2	64.4	-36.3	0.2	79	0			
	10	- 22	- 23	NE <sup>b</sup> N	3.5		-36.3	0.2	80	0			
	Noon	- 22	- 23	NE <sup>b</sup> N	3.7	64.1	-36.8	0.2	79	0			

<sup>1</sup> Bank on the northern horiz.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Decb. 17.	2	85° 22'	48° 22'	NE	3.8		-36.1	0.2	79	0			
	4	- 22	- 22	NE <sup>b</sup> N	3.2	763.4	-37.2	0.2	78	0			
	6	- 22	- 20	NE <sup>b</sup> N	3.7		-37.1	0.2	79	0			
	8	- 22	- 19	N	3.0	62.4	-36.8	0.2	79	0			
	10	- 21	- 18	N <sup>b</sup> E	4.0		-36.3	0.2	79	0			
	Mn.	- 21	- 17	NNE	3.3	61.5			79	0			
Decb. 18.	2	85 21	48 15	NE <sup>b</sup> N	3.3				79	0			
	4	- 21	- 14	NE <sup>b</sup> N	3.8	60.8			79	0			
	6	- 21	- 13	NNE	2.8				79	0			
	8	- 21	- 12	NE <sup>b</sup> N	3.6	60.7	-37.5	0.2	79	0			
	10	- 20	- 10	NE <sup>b</sup> N	3.2		-36.9	0.2	79	0			
	Noon	- 20	- 9	NE <sup>b</sup> N	2.7	61.0	-36.2	0.2	80	0			
	2	- 20	- 8	NNE	3.1		-35.7	0.2	80				
	4	- 20	- 6	N <sup>b</sup> E	3.3	61.3	-35.6	0.2	80	10°	Cist.		
	6	- 20	- 5	N <sup>b</sup> E	3.4		-37.4	0.2	79	0			
	8	- 19	- 4	N	3.3	62.1	-38.2	0.1	79	0			
	10	- 19	- 3	NW	3.1		-38.0	0.1	79	0			
	Mn.	- 19	- 1	N <sup>b</sup> W	3.0	63.2			80	10°	Cist.		
Decb. 19.	2	85 19	48 0	N	4.0				80	0			
	4	- 19	47 59	N <sup>b</sup> W	4.0	63.9			80	0			
	6	- 18	- 57	N	4.0				80	0			
	8	- 18	- 56	N <sup>b</sup> W	4.3	65.3	-36.1	0.2	80	0			
	10	- 18	- 55	N <sup>b</sup> W	6.0		-35.9	0.2	80	0			
	Noon	- 18	- 54	N	5.4	66.8	-35.6	0.2	80	0			
	2	- 18	- 52	N	5.4		-35.8	0.2	80				
	4	- 18	- 51	N	7.5	68.4	-33.1	0.2	81	10°	Cist.		
	6	- 17	- 52	N	5.2		-35.2	0.2	80	0			
	8	- 17	- 52	N <sup>b</sup> E	5.3	69.1	-33.2	0.2	80	10°	Cist.		
	10	- 17	- 53	N	5.8		-31.9	0.3	81	10	Cist.		
	Mn.	- 17	- 53	N	4.0	70.7			81	0			
Decb. 20.	2	85 17	47 54	N	5.3				82	0			
	5.30	- 17	- 55	N	4.0	71.5			82	0			
	6	- 17	- 55	N	3.4				82	0			
	8	- 17	- 55	N	3.2	71.5	-33.7	0.2	82	0			
	10	- 16	- 56	N <sup>b</sup> W	3.6		-33.3	0.2	81	0			
	Noon	- 16	- 57	N <sup>b</sup> W	3.2	71.6	-33.3	0.2	81	10°	Cist.		
	2	- 16	- 57	N <sup>b</sup> W	3.0		-32.4	0.3	82	0			
	4	- 16	- 58	N <sup>b</sup> W	3.4	71.3	-29.6	0.3	82	10°	Cist.		
	6	- 16	- 58	NE <sup>b</sup> N	3.2		-27.4	0.4	83	10	Cist.		
	8	- 16	- 59	NE <sup>b</sup> E	4.8	69.7	-26.1	0.5	84	10	Str.		
	10	- 16	- 59	E	6.7		-26.8	0.4	84	10	Str.		
	Mn.	- 16	48 0	E <sup>b</sup> N	4.6	70.6			85	10	Str.		
Decb. 21.	2	85 16	48 1	E <sup>b</sup> N	3.8				85	10°	Str.		
	4	- 15	- 1	E <sup>b</sup> N	2.7	70.1			84	0			
	6	- 15	- 2	E <sup>b</sup> N	3.0				83	0			
	8	- 15	- 2	NE	2.1	69.5	-30.9	0.3	85	0			
	10	- 15	- 3	NE <sup>b</sup> N	2.7		-32.0	0.3	82	0			
	Noon	- 15	- 3	NNE	3.4	68.6	-32.1	0.3	82	0			
	2	- 15	- 2	NNE	4.7		-30.1	0.3	83	10	Cist.		
	4	- 15	- 2	NNE	3.6	67.8	-30.6	0.3	83	0			
	6	- 15	- 2	NE <sup>b</sup> E	4.0		-30.2	0.3	83	0			
	8	- 15	- 2	ENE	2.6	67.8	-31.4	0.3	82	0			
	10	- 15	- 2	ENE	3.4		-32.0	0.3	83	0			
	Mn.	- 16	- 2	ENE	2.6	68.8			82	0			

<sup>1</sup> In a few minutes the sky cleared except round the horiz. to a height of from 10° to 15°.

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Decb. 22.	2	85° 16'	48° 2'	ENE	2.3				82	0			
	4	- 16	- 2	E <sup>b</sup> S	2.5	769.9			82	0			
	6	- 16	- 2	E <sup>b</sup> S	2.0				81	0			
	8	- 16	- 2	ESE	2.0	71.0	-35.7	0.2	81	0			
	10	- 16	- 2	E <sup>b</sup> N	2.1		-35.2	0.2	81	0			
	Noon	- 16	- 2	E <sup>b</sup> S	2.4	71.9	-36.0	0.2	81	0			
	2	- 16	- 2	E	0.0		-36.4	0.2	81	10			
	4	- 16	- 2	E	0.0	72.2	-36.1	0.2	82	10			
	6	- 17	- 2	ENE	1.6		-36.0	0.2	81	10			
	8	- 17	- 2	ENE	1.5	72.5	-35.5	0.2	81	10			
	10	- 17	- 1	NNE	1.5		-32.3	0.3	83	10	Cist.		
	Mn.	- 17	- 1		0	72.5			83	10	Str.		
Decb. 23.	2	85 17	48 1	E	1.6				82	10	Str.		*°
	4	- 17	- 1		0	71.7			83	10	Str.		
	6	- 17	- 1		0				84	10	Str.		
	8	- 17	- 1	SE	1.2	71.8	-26.1	0.5	84	10	Str.		*°
	10	- 17	- 1	SE	3.1		-24.9	0.5	85	10	Str.		
	Noon	- 18	- 1	SSE	3.2	70.6	-24.1	0.5	86	10	Str.		
	2	- 18	- 1	SSE	4.2		-23.7	0.5	86	10	Str.		
	4	- 18	- 1	S	5.8	69.8	-23.1	0.6	86	10	Str.		*°
	6	- 18	- 1	S	5.8		-24.7	0.5	85	0			
	8	- 18	- 1	S <sup>b</sup> E	4.0	69.3	-28.9	0.3	84	0			
	10	- 18	- 1	S <sup>b</sup> E	7.0		-28.9	0.3	83	0			
	Mn.	- 18	- 1	S <sup>b</sup> E	6.0	68.2			83	0			
Decb. 24.	2	85 18	48 1	S <sup>b</sup> E	6.6				81	0			
	4	- 18	- 1	S <sup>b</sup> E	7.2	68.0			83	0			
	6	- 19	- 1	S <sup>b</sup> E	7.6				81	0			
	8	- 19	- 1	S	4.6	67.5	-31.6	0.3	82	0			
	10	- 19	- 1	S <sup>b</sup> E	7.4		-31.4	0.3	81	0			
	Noon	- 19	- 1	S <sup>b</sup> E	7.2	67.4	-31.0	0.3	81	0			
	2	- 19	- 1	S	6.4		-31.8	0.3	81	0			
	4	- 19	- 1	S	5.1	68.1	-32.9	0.2	81	0			
	6	- 19	- 1	S	3.8		-32.2	0.3	81	0			
	8	- 19	- 1	S <sup>b</sup> E	4.5	68.2	-33.6	0.2	81	0			
	11	- 19	- 1	S <sup>b</sup> E	3.6		-34.5	0.2	81	0			
	Mn.	- 20	- 1	SSE	3.6	68.5			80	0			
Decb. 25.	2	85 20	48 1	SSE	4.2				80	2	Cist.		
	4	- 20	- 1	SSE	2.9	69.7			81	0			
	6	- 20	- 1	S <sup>b</sup> E	3.4				81	10°	Cist.		
	8	- 20	- 1	SSE	4.0	70.0	-34.8	0.2	80	0			
	10	- 20	- 1	SSE	3.3		-35.1	0.2	80	0			
	Noon	- 20	- 1	SSE	3.5	70.7	-35.5	0.2	80	0			
	2	- 20	- 0	SSE	3.3		-36.4	0.2	80	0			
	4	- 20	- 0	SSE	3.1	70.4	-36.4	0.2	80	0			
	6	- 21	- 0	SSE	4.2		-34.8	0.2	80	0	Cust.		*°
	8	- 21	- 0	S	2.6	70.1	-34.5	0.2	80	0			
	10.15	- 21	- 0	S	3.2		-34.2	0.2	80	10°	Cist.		
	Mn.	- 21	- 0	S	1.8	70.2			82	0			
Decb. 26.	2	85 21	48 0	S	3.6				82	10	Str.		
	4	- 21	- 0	S	4.6	70.4			83	10	Str.		
	6	- 21	47 59	S	3.4				84	10	Str.		
	8	- 21	- 59	S	4.0	69.9	-24.6	0.5	85	10	Str.		
	10	- 21	- 59	S <sup>b</sup> W	4.0		-23.7	0.5	85	10	Cust.		
	Noon	- 21	- 59	S	4.4	69.7	-22.8	0.6	86	9	Cist.		
	2	- 22	- 59	S	3.1		-22.3	0.6	86	10	Ci. Cust.		
	4	- 22	- 59	S	3.9	68.9	-20.7	0.7	87	10	Str.		
	6	- 22	- 59	S <sup>b</sup> W	6.7		-23.4	0.6	87	10			
	8	- 22	- 59	S	4.9	67.7	-25.5	0.5	86	10	Cu.		
	10	- 22	- 58	S	4.7		-25.5	0.5	85	10	Str.		
	Mn.	- 22	- 58	S	7.2	65.4			84	10	Str.		*°

1895. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form	Dir.	
Decb. 27.	2	85° 22'	47° 58'	S <sup>b</sup> E	6.8				85	10	Cust.		*°
	4	- 22	- 58	S <sup>b</sup> E	7.2	761.4			85	10	Str.		*°
	6	- 22	- 58	S <sup>b</sup> E	5.6				86	10	Str.		*°
	8	- 22	- 58	S <sup>b</sup> E	4.6	57.7	-21.5	0.7	87	10	Str.		*°
	10	- 22	- 58	S	5.9		-19.4	0.8	85	10	Str.		*°
	Noon	- 23	- 58	S	5.1	56.0	-19.4	0.8	87	10	Str.		*°
	2	- 23	- 57	S	3.0		-20.2	0.8	86	10	Cist.		
	4.15	- 23	- 57	S <sup>b</sup> E	2.8	54.5	-21.1	0.7	86	10	Cist.		
	6	- 23	- 57	S <sup>b</sup> E	2.5		-21.5	0.7	85	10	Cist.		*°
	8	- 23	- 57	SSE	2.7	52.5	-23.4	0.6	85	10°	Cist.		
	10	- 23	- 57	SSE	2.4		-24.1	0.5	85	10°	Ci.		
	Mn.	- 23	- 57	SE	2.1	51.2			85	10°	Ci.		
Decb. 28.	2	85 23	47 57	SE	1.6				85	10	Str.		*°
	4	- 24	- 56	E	1.7	49.8			85	10	Cist.		*°
	6	- 24	- 56	NE	2.0				84	10	Cist.		*°
	8	- 24	- 56	NW	2.8	48.9	-29.0	0.3	84	10			*°
	10	- 24	- 56	NW <sup>b</sup> N	4.0		-34.6	0.2	82	0			
	Noon	- 24	- 56	NW	4.2	49.2	-36.8	0.2	81	0			
	2	- 24	- 57	NW	3.6		-37.2	0.2	81	0			
	4	- 24	- 55	NW	3.6	49.5	-38.0	0.1	81	0			
	6	- 24	- 53	NW	2.0		-38.0	0.1	80	0			
	8	- 24	- 51	NW <sup>b</sup> N	2.0	50.0	-38.3	0.1	80	0			
	10	- 24	- 49	N	1.6		-38.2	0.1	80	0	Cist.	NE	
	Mn.	- 24	- 47	NW	2.1	51.0			79	0	Cist.		
Decb. 29.	2	85 24	47 45	N	1.8				79	0			
	4	- 24	- 43	NNW	2.1	52.3			79	0			
	6	- 24	- 41	NNW	2.0				79	0			
	8	- 24	- 39	NNW	2.4	53.1	-40.5	0.1	79	0			
	10	- 24	- 37	NNE	2.8		-37.3	0.2	79	0			
	Noon	- 24	- 35	NE <sup>b</sup> N	2.7	53.8	-35.5	0.2	79	0			
	2	- 24	- 33	NE <sup>b</sup> N	2.1		-36.3	0.2	79	0			
	4	- 24	- 31	NNE	1.8	54.2	-37.2	0.2	79	0			
	6	- 24	- 29	E	2.4		-38.0	0.1	79	0			
	8	- 23	- 27	ESE	1.8	54.5	-38.8	0.1	79	0			
	10	- 23	- 25	E <sup>b</sup> S	2.3		-40.0	0.1	78	0			
	Mn.	- 23	- 23	E <sup>b</sup> S	1.8	54.7	-37.3	0.2	78	0			
Decb. 30.	2	85 23	47 21	E	1.6		-35.0	0.2	80	10°	Ci.		
	4	- 23	- 19	E	2.4	55.4	-34.3	0.2	81	0	Str.		
	6	- 23	- 17	SE <sup>b</sup> E	3.3				82	10	Str.		
	8	- 23	- 15	ESE	2.8	56.2	-38.4	0.1	79	10			
	10	- 23	- 13	E	3.2		-38.6	0.1	79	10°	Cist.		
	Noon	- 23	- 11	E	2.3	57.0	-39.4	0.1	78	0			
	2	- 23	- 7	ENE	2.3		-40.0	0.1	75	0			
	4	- 23	- 4	ENE	2.4	57.6	-41.7	0.1	78	0			
	6	- 23	- 1	NE <sup>b</sup> E	2.5		-41.9	0.1	78	0			
	8	- 23	46 59	NE	2.6	58.1	-41.3	0.1	78	0			
	10	- 23	- 56	NE	3.0		-42.2	0.1	78	0			
	Mn.	- 22	- 53	NE	2.6	58.5			78	0			
Decb. 31.	2	85 22	46 50	NE	2.8				77	0			
	4	- 22	- 47	NE	2.1	59.0			77	2	Ci.	NNE	
	6	- 22	- 44	NE	3.7				77	5°	Ci.		
	8	- 22	- 42	NE	2.7	58.6	-43.7	0.1	77	0			
	10	- 22	- 39	NE	3.1		-44.7	0.1	77	0			
	Noon	- 22	- 36	NE <sup>b</sup> N	3.8	58.7	-44.4	0.1	77	0			
	2	- 22	- 33	NNE	3.4		-44.9	0.1	77	0			
	4	- 21	- 30	NNE	4.0	58.3	-45.0	0.1	77	0			

<sup>1</sup> U. <sup>2</sup> A few ci. <sup>3</sup> A few ci. 5 p. m. Ci. NE to NNE.



1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Decb. 31.	6	85° 21'	46° 27'	NNE	3.6		-45.5	0.1	77	0			
	8	- 21	- 25	NE <sup>b</sup> N	4.3	757.9	-45.4	0.1	77	0			
	10	- 21	- 22	NNE	3.8		-44.9	0.1	77	0			
	Mn.	- 21	- 19	NNE	5.1	57.8			77	0			
1896. Day.													
Jan. 1.	2	85 21	46 16	NNE	5.0				77	0			
	4	- 21	- 13	NNE	6.3	57.5			77	0			
	6	- 20	- 10	NE <sup>b</sup> N	5.4				77	0			
	8	- 20	- 8	NNE	5.6	57.1	-43.1	0.1	77	10	Ci.		
	10	- 20	- 5	NE <sup>b</sup> N	5.4		-41.9	0.1	78	10	Ci.		
	Noon	- 20	- 2	NE	3.5	57.2	-41.6	0.1	78	10°	Ci.		
	2	- 20	45 59	NNE	4.2		-41.6	0.1	78	8°	Cicu.		
	4	- 20	- 56	NE <sup>b</sup> N	3.4	57.0	-42.4	0.1	78	1°	Cicu.	NE	
	6	- 20	- 53	NNE	3.6		-42.9	0.1	78	0			
	8	- 20	- 50	NNE	4.0	57.0	-43.7	0.1	77	0			
	10	- 19	- 48	NNE	3.6		-43.7	0.1	77	0			
	Mn.	- 19	- 45	NNE	3.8	56.7			77	0			
Jan. 2.	2	85 19	45 42	NNE	4.0				78	0			
	4	- 19	- 39	NNE	4.0	57.0			78	0			
	6	- 19	- 36	NNE	4.4				77	0			
	8	- 19	- 33	NNE	3.7	57.1	-40.5	0.1	78	10°	Ci.		
	10	- 19	- 31	N	3.3		-41.0	0.1	75	0			
	Noon	- 19	- 28	N <sup>b</sup> E	2.8	57.9	-40.4	0.1	76	10°	Cist.		
	2	- 18	- 25	N	2.9		-41.4	0.1	76	0			
	4	- 18	- 22	NNE	3.6	58.8	-41.9	0.1	77	0			
	6	- 18	- 21	NNE	3.8		-42.2	0.1	76	0			
	8	- 18	- 20	NNE	3.6	59.3	-42.1	0.1	77	0			
	10	- 18	- 18	ENE	2.7		-42.4	0.1	77	0			
	Mn.	- 18	- 17	ENE	2.1	60.6			77	0			
Jan. 3.	2	85 18	45 16	ENE	1.7				77	0			
	4	- 18	- 15	E	2.0	61.8			77	0			
	6	- 18	- 13	ENE	2.2				77	0			
	8	- 18	- 12	E <sup>b</sup> S	2.6	63.1	-42.4	0.1	77	0			
	10	- 18	- 11	E <sup>b</sup> S	2.4		-43.2	0.1	77	0			
	Noon	- 17	- 10	E <sup>b</sup> S	2.0	63.9	-43.3	0.1	78	0			
	2	- 17	- 8	E	1.8		-42.8	0.1	78	0			
	4	- 17	- 7	ENE	1.8	63.7	-43.4	0.1	78	0			
	6	- 17	- 6	NE	1.8		-43.7	0.1	78	0			
	8	- 17	- 5	N	2.3	62.8	-43.8	0.1	79	0			
	10	- 17	- 3	N	2.5		-43.3	0.1	79	0			
	Mn.	- 17	- 2	N	3.2	62.1			79	0			
Jan. 4.	2	85 17	45 1	NNW	2.9				79	0			
	4	- 17	- 0	NNW	3.2	61.3			80	0			
	6	- 17	44 58	NN <sup>w</sup>	3.6				80	10°			
	8	- 17	- 57	NW <sup>b</sup> W	3.2	60.5	-41.2	0.1	80	0			
	10	- 17	- 56	N <sup>b</sup> W	3.0		-40.7	0.1	80	0			
	Noon	- 16	- 55	NW <sup>b</sup> N	2.4	60.2	-42.7	0.1	79	0			
	2	- 16	- 55	N <sup>b</sup> W	2.0		-42.9	0.1	79	0			
	4	- 16	- 55	N <sup>b</sup> W	1.6	59.4	-43.6	0.1	79	0			
	6	- 16	- 55	NW <sup>b</sup> N	1.7		-43.9	0.1	79	1°			
	8	- 16	- 54	N <sup>b</sup> W	1.8	59.2	-43.8	0.1	80	1°			
	10	- 16	- 54	N <sup>b</sup> W	1.7		-43.4	0.1	80	0			
	Mn.	- 16	- 54		0	58.7			80	0			
Jan. 5.	2	85 16	44 54	E <sup>b</sup> N	1.5				80	0			
	4	- 16	- 54	E <sup>b</sup> S	1.9	58.6			80	0			
	6	- 17	- 54	E <sup>b</sup> S	2.8				80	0			
	8	- 17	- 54	SE <sup>b</sup> E	3.0	58.6	-44.5	0.1	80	0			

<sup>1</sup> A few ci.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 5.	10	85° 17'	44° 54'	E b S	2.7		-45.4	0.1	80	0			
	Noon	- 17	- 53	E b S	4.2	758.3	-45.7	0.1	80	0			
	2	- 17	- 53	E b S	3.0		-46.6	0.1	80	0			
	4	- 17	- 53	E b S	3.6	57.9	-46.7	0.1	80	0			
	6	- 17	- 53	E	3.1		-46.4	0.1	80	0			
	8	- 17	- 53	E	2.5	56.7	-46.3	0.1	80	0			
	10	- 17	- 53	E	3.6		-45.9	0.1	80	0			
	Mn.	- 17	- 53	E	4.0	54.6			80	0			
Jan. 6.	2	85 17	44 53	E b S	2.6				81	0			
	4	- 17	- 52	E b S	5.0	53.4			80	0			
	6	- 17	- 52	E b S	4.6				81	0			
	8	- 17	- 52	E	4.2	51.7	-46.0	0.1	81	0			
	10	- 17	- 52	E b S	5.3		-46.4	0.1	80	0			
	Noon	- 17	- 51	E b S	5.9	50.3	-45.9	0.1	81	0			
	2	- 17	- 47	E	5.5		-45.9	0.1	81	0			
	4	- 17	- 44	E	5.8	48.8	-45.9	0.1	81	0			
	6	- 17	- 38	E	5.8		-44.9	0.1	81	0			
	8	- 16	- 33	E	6.3	47.3	-44.8	0.1	81	0			
	10	- 16	- 27	E b N	6.3		-44.9	0.1	81	0			
	Mn.	- 16	- 21	E b N	5.0	47.0			82	0			
Jan. 7.	2	85 16	44 16	E b N	7.2				81	0			
	4	- 15	- 11	E b N	7.4	47.7			81	0			
	6	- 15	- 5	NE b E	6.0				80	0			
	8	- 15	- 0	NE b N	5.8	49.2	-44.9	0.1	81	0			
	10	- 15	43 54	NE b N	6.0		-45.5	0.1	82	0			
	Noon	- 15	- 49	NNE	6.5	50.5	-45.6	0.1	81				
	2	- 14	- 43	N b E	5.9		-45.5	0.1	82	0			
	4	- 14	- 37	N b E	8.1	50.9	-45.8	0.1	82	0			
	6	- 14	- 32	N	6.8		-45.1	0.1	82	0			
	8	- 14	- 26	N	8.6	51.7	-46.1	0.1	82	0			
	10	- 13	- 21	N	8.2		-46.0	0.1	82	0			
	Mn.	- 13	- 15	N b W	8.0	52.7	-45.9	0.1	82	0			
Jan. 8.	2	85 13	43 10	N	9.0		-45.5	0.1	82	0			
	4	- 13	- 4	N b W	8.5	53.8	-45.2	0.1	82	0			
	6	- 13	42 59	N	8.0		-45.4	0.1	82	0			
	8	- 12	- 53	N b W	8.5	54.5	-45.3	0.1	82	10°	Cist.		
	10	- 12	- 48	N b W	9.2		-45.3	0.1	82	10°	Cist.		
	Noon	- 12	- 43	N b W	10.2	54.9	-44.9	0.1	82	10°	Cist.		
	2	- 11	- 39	N b W	11.2		-45.1	0.1	76	10°	Cist.		
	4	- 11	- 36	N b W	11.8	55.2	-43.7	0.1	76	10°	Cist.		
	6	- 10	- 32	N b W	11.8		-42.9	0.1	75	10°	Cist.		
	8	- 9	- 28	N b W	12.4	56.0	-41.8	0.1	77	10°	Cist.		
	10	- 9	- 25	N b W	9.4		-41.8	0.1	77	10°	Cist.		
	Mn.	- 8	- 21	N b W	11.0	57.4	-41.9	0.1	77	10°	Cist.		
Jan. 9.	2	85 8	42 17	N b W	9.8		-41.7	0.1	77	10°	Cist.		
	4	- 7	- 14	N b W	8.8	58.5	-41.9	0.1	77	10°	Str.		
	6	- 7	- 10	N b W	9.5		-40.9	0.1	78	10°	Str.		
	8	- 6	- 7	N b W	8.6	59.9	-43.3	0.1	77	10°	Cist.		
	10	- 5	- 3	N b W	8.0		-43.6	0.1	76	10°	Cist.		
	Noon	- 5	41 59	N b W	8.0	60.4	-44.1	0.1	77	10°	Cist.		
	2	- 4	- 56	NNW	5.4		-44.9	0.1	77	10°	Cist.		
	4	- 4	- 52	NNW	6.6	60.7	-45.0	0.1	76	10°	Cist.		
	6	- 3	- 48	NNW	5.9		-45.0	0.1	76	0			
	8	- 2	- 45	NNW	6.5	61.1	-45.2	0.1	76	0			
	10	- 2	- 41	N b W	5.2		-45.5	0.1	76	0			
	Mn.	- 1	- 37	N b W	5.4	61.7	-45.1	0.1	76	0			
Jan. 10.	2	85 1	41 34	N b W	6.0		-44.4	0.1	77	0			
	4	- 0	- 30	NNW	7.0	62.0	-44.4	0.1	77	0			
	6	- 0	- 27	NNW	6.2		-44.4	0.1	77	0			

1896. Day.	H l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 10.	8	84° 59'	41° 23'	NNW	5.6	761.9	-44.8	0.1	77	0			
	10	- 58	- 19	NNW	7.4		-44.9	0.1	76	0			
	Noon	- 58	- 17	NNW	6.0	62.2	-45.2	0.1	76	0			
	2	- 58	- 16	N b W	5.6		-45.4	0.1	77	0			
	4	- 58	- 16	NNW	7.1	62.0	-45.2	0.1	76	0			
	6	- 58	- 15	NNW	6.4		-44.9	0.1	76	0			
	8	- 57	- 15	NW b N	6.5	61.3	-44.8	0.1	76	0			
	10	- 57	- 14	NNW	4.8		-44.3	0.1	77	0			
	Mn.	- 57	- 13	NNW	4.6	60.9	-43.9	0.1	77	0			
Jan. 11.	2	84 57	41 13	NNW	3.8		-42.9	0.1	77	0			
	4	- 57	- 12	NW b N	5.4	60.2	-43.7	0.1	77	0			
	6	- 57	- 12	NNW	4.6		-43.9	0.1	77	0			
	8	- 56	- 11	NW b N	5.6	60.1	-44.9	0.1	77	0			
	10	- 56	- 11	NW b N	5.9		-45.9	0.1	77	0			
	Noon	- 56	- 10	NW b N	5.9	60.2	-46.9	0.1	76	0			
	2	- 56	- 9	NW b N	5.8		-47.7	0.1	76	0			
	4	- 56	- 9	NNW	4.6	60.3	-47.7	0.1	76	0			
	6	- 56	- 8	NW b N	6.3		-47.2	0.1	76	0			
	8	- 55	- 8	NW b N	5.2	59.9	-47.1	0.1	76	0			
	10	- 55	- 7	NW b N	4.2		-47.1	0.1	77	0			
	Mn.	- 55	- 7	NW b N	4.4	60.0	-45.9	0.1	76	0			
Jan. 12.	2	84 55	41 6	NW b N	5.5		-45.9	0.1	77	0			
	4	- 55	- 5	NW b N	4.9	59.9	-46.6	0.1	77	0			
	6	- 55	- 5	NW b N	5.0				76	0			
	8	- 55	- 4	NW b N	4.8	59.3	-44.8	0.1	77	10°	Cist.		
	10	- 54	- 4	NW b N	5.2		-44.1	0.1	77	0			
	Noon	- 54	- 3	NNW	6.0	58.7	-44.1	0.1	77	9°	Cist.		
	2	- 54	- 2	NNW	4.2		-44.0	0.1	77	10°	Cist.		
	4	- 54	- 2	NNW	3.8	58.1	-44.4	0.1	77	10°	Cist.		
	6	- 54	- 1	N b W	3.7		-44.9	0.1	77	10°	Cist.		
	8	- 54	- 1	N b W	4.0	57.5	-44.1	0.1	77	10°	Cist.		
	10	- 53	- 0	N b W	3.5		-45.6	0.1	77	10°	Cist.		
	Mn.	- 53	- 0	NNW	4.8	56.6	-45.1	0.1	77	0			
Jan. 13.	2	84 53	40 59	N b W	4.0		-44.9	0.1	77	0			
	4	- 53	- 58	N b W	4.2	55.6	-44.8	0.1	77	0			
	6	- 53	- 58	N b W	3.0		-45.7	0.1	77	0			
	8	- 53	- 57	N b W	3.3	54.8	-45.9	0.1	77	0			
	10	- 52	- 57	N b W	3.5		-46.4	0.1	77	0			
	Noon	- 52	- 57	NNW	3.6	53.7	-46.6	0.1	77	0			
	2	- 52	- 57	NW b N	4.2		-45.9	0.1	77	10°	Cist.		
	4	- 52	- 57	NW b N	4.2	52.3	-44.9	0.1	77	10°	Cist.		
	6	- 52	- 56	NW b W	4.4		-44.4	0.1	77	10°	Cist.		
	8	- 52	- 56	NW b W	4.6	51.8	-43.4	0.1	77	10°	Cist.		
	10	- 52	- 56	WNW	3.7		-42.6	0.1	78	10°	Cist.		
Jan. 14.	Mn.	- 52	- 56	WNW	3.5	50.2			78	10°	Ci.		
	2	84 52	40 56	WNW	3.5				77	10°	Cist.		
	4	- 52	- 56	NW b W	2.1	49.9			78	10°	Cist.		
	6	- 52	- 56	NW b N	2.4				77	0			
	8	- 52	- 55	NNW	1.6	50.2	-45.1	0.1	78	0			
	10	- 52	- 55	NNW	1.5		-45.9	0.1	77	0			
	Noon	- 52	- 55	N b W	2.2	51.0	-46.3	0.1	77	0			
	2.15	- 52	- 55		0		-46.9	0.1	77	0			
	4	- 52	- 55	N b E	1.4	51.4	-46.9	0.1	77	0			
	6	- 52	- 55	NE b N	1.8		-47.8	0.1	77	0			
	8	- 52	- 55	E b N		52.6	-47.9	0.1	77	0			
	10	- 52	- 54	NE b N	2.1		-48.9	0.0	77	0			
Jan. 15.	Mn.	- 52	- 54	NE b E	2.2	53.7	-49.1	0.0	77	0			
	2	84 52	40 54	NE b E	1.5		-49.2	0.0	77	0			
	4	- 52	- 54	NE b E	1.5	55.3	-49.3	0.0	77	0			

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 15.	6	84° 52'	40° 54'	SE <sup>b</sup> E	1.5		-49.2	0.0	76	0			
	8	- 52	- 54	E <sup>b</sup> S	1.7	756.8	-49.0	0.0	77	0			
	10	- 52	- 53	E <sup>b</sup> S	2.1		-49.2	0.0	76	0			
	Noon	- 52	- 53	E <sup>b</sup> S	2.3	58.8	-48.8	0.0	76	0			
	2	- 52	- 53	SE <sup>b</sup> E	2.0		-49.8	0.0	77	0			
	4	- 52	- 53	E <sup>b</sup> S	1.9	60.4	-49.9	0.0	76	0			
	6	- 52	- 51	ESE	2.8		-49.7	0.0	76	0			
	8	- 52	- 50	SE <sup>b</sup> E	2.0	61.7	-49.5	0.0	76	0			
	10	- 52	- 48	ESE	2.1		-49.0	0.0	77	0			
	Mn.	- 52	- 46	SW <sup>b</sup> S	2.4	62.4	-48.4	0.1	78	0			
Jan. 16.	2	84 52	40 44	E <sup>b</sup> S	2.6		-49.4	0.0	77	0			
	4	- 52	- 42	E <sup>b</sup> N	2.2	63.6	-48.9	0.0	77	0			
	6	- 52	- 40	E	1.4		-48.6	0.0	77	0			
	8	- 52	- 39	E <sup>b</sup> S	2.3	64.1	-48.1	0.1	76	0			
	10	- 52	- 37	ENE	2.8		-47.7	0.1	76	0			
	Noon	- 52	- 35	E <sup>b</sup> N	3.8	63.6	-45.4	0.1	77	10	Cist.		
	2	- 52	- 33	ENE	4.2		-44.2	0.1	77	10	Cist.		
	4	- 52	- 31	ENE	4.8	62.2	-43.1	0.1	77	10°	Cist.		
	6	- 52	- 29	E <sup>b</sup> N	5.2		-42.6	0.1	77	10°	Cist.		
	8	- 52	- 27	E <sup>b</sup> N	5.9	60.0	-42.7	0.1	77	10°	Cist.		
	10	- 52	- 25	E <sup>b</sup> N	5.6		-40.9	0.1	78	10	Cist.		
Jan. 17.	Mn.	- 53	- 23	E	5.6	56.4	-37.7	0.1	78	10°	Cist.		
	2	84 53	40 21	E	7.8		-35.8	0.2	79	10	Cist.		
	4	- 53	- 19	ESE	7.4	53.4	-34.9	0.2	80	10°	Cist.		
	6	- 53	- 17	E	4.7		-34.1	0.2	81	10	Str.		
	8	- 53	- 15	E <sup>b</sup> N	4.8	52.2	-33.8	0.2	81	10	Cist.		*°
	10	- 53	- 13	NE <sup>b</sup> E	3.9		-32.6	0.2	82	10°	Cist.		*°
	Noon	- 54	- 11	NE <sup>b</sup> N	2.2	51.8	-34.8	0.2	81	10°	Cist.		
	2	- 54	- 9	NNW	2.6		-37.8	0.1	81	10°	Cist.		
	4	- 54	- 7	NNW	1.6	53.2	-39.6	0.1	81	0			
	6	- 54	- 6	NW <sup>b</sup> W	2.4		-40.8	0.1	81	0			
	8	- 54	- 4	NW <sup>b</sup> N	1.6	55.5	-41.1	0.1	81	0			
Jan. 18.	10	- 54	- 2	SW <sup>b</sup> W	2.1		-42.3	0.1	80	0			
	Mn.	- 55	- 0	SW <sup>b</sup> S	1.5	57.7	-42.4	0.1	80	0			
	2	84 55	39 58	S <sup>b</sup> W	2.3		-42.1	0.1	80	10°	Cist.		
	4	- 55	- 56	SE <sup>b</sup> S	1.7	59.4	-41.7	0.1	80	0			
	6	- 55	- 54	SE <sup>b</sup> E	3.4		-36.2	0.2	81	10	Str.		
	8	- 55	- 52	SE <sup>b</sup> E	5.5	57.8	-34.3	0.2	82	10	Str.		*°
	10	- 55	- 50	SE <sup>b</sup> E	8.6		-32.6	0.2	82	10	Str.		
	Noon	- 56	- 48	SE <sup>b</sup> S	9.1	55.6	-30.3	0.3	84	10	Str.		
	2.15	- 56	- 46	SE <sup>b</sup> S	8.0		-27.5	0.5	86	10	Str.		
	4	- 56	- 44	SE <sup>b</sup> S	9.4	53.9	-26.1	0.5	87	10	Str.		
	6	- 56	- 42	SE <sup>b</sup> S	11.0		-22.7	0.6	86	10	Str.		*°
Jan. 19.	8	- 56	- 40	SSE	11.1	51.8	-20.9	0.8	90	10	Str.		*°
	10	- 56	- 38	SSE	8.6		-19.6	0.9	93	10	Str.		*°
	Mn.	- 57	- 36	SSE	7.0	50.7			94	10	Str.		*°
	2	84 57	39 34	SSE	7.6				90	10°	Str.		*°
	4	- 57	- 32	S <sup>b</sup> E	8.6	50.1	-17.1	1.0	90	10	Str.		*°
	6	- 57	- 30	SSE	8.6		-17.4	1.0	91	5	Str.		
	8.15	- 57	- 28	SSE	6.8	48.7	-18.3	0.9	90	10	Str.		
	10	- 57	- 26	SE <sup>b</sup> S	9.0		-19.6	0.8	89	10	Str.		
	Noon	- 58	- 24	SE <sup>b</sup> S	6.8	47.6	-20.4	0.8	88	10	Str.		
	2	- 58	- 22	SE <sup>b</sup> S	6.6		-21.2	0.7	87	10	Cist.		
	4	- 58	- 20	SE <sup>b</sup> S	5.8	46.9	-22.9	0.6	87	10	Str.		*°
Jan. 19.	6	- 58	- 18	SE <sup>b</sup> E	5.5		-23.4	0.6	86	10°	Cist.		*°
	8	- 58	- 16	SE <sup>b</sup> E	5.4	46.0	-24.9	0.5	85	10°	Cist.		*°
	10	- 58	- 14	SE <sup>b</sup> E	3.8		-26.9	0.4	84	0			*°
	Mn.	- 58	- 12	SE <sup>b</sup> S	4.8	46.3			85	10°			*°

<sup>1</sup> Unusually clear.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 20.	2	84° 58'	39° 11'	SE <sup>b</sup> S	5.0				86	10	Str.		*°
	4	- 58	- 9	ESE	6.2	745.9	-23.6	0.6	86	10	Str.		*°
	6	- 58	- 7	ESE	4.5		-25.9	0.5	86	10	Str.		*°
	8	- 58	- 5	SE	5.0	45.9	-23.8	0.5	86	10	Str.		*°
	10	- 58	- 3	SE <sup>b</sup> S	4.6		-23.2	0.6	86	10	Str.		*°
	Noon	- 58	- 1	SE <sup>b</sup> S	5.0	46.0	-23.1	0.6	86	10°	Cist.		*°
	2	- 59	38 59	SE	5.2		-24.4	0.5	85	10	Str.		*°
	4	- 59	- 57	SE <sup>b</sup> S	3.7	46.5	-23.1	0.6	85	10	Str.		*°
	6	- 59	- 56	SE	3.6		-22.1	0.6	85	10	Str.		*°
	8	- 59	- 54	SE <sup>b</sup> S	3.8	46.6	-20.6	0.7	85	10	Str.		*°
	10	- 59	- 52	SE <sup>b</sup> S	3.1		-20.9	0.7	86	10	Str.		*°
	Mn.	- 59	- 50	SE <sup>b</sup> S	2.8	47.1			86	10	Cist.		*°
Jan. 21.	2	84 59	38 48	SW <sup>b</sup> S	3.4				86	10°	Cist.		*°
	4	- 59	- 46	S	2.9	48.2			85	10	Cist.		*°
	6	- 59	- 44	S	2.8				85	10°	Cist.		*°
	8	- 59	- 43	S	3.1	48.9	-27.7	0.4	85	10°	Cist.		*°
	10	- 59	- 41	SSE	2.8		-28.9	0.3	84	10°	Cist.		*°
	Noon	- 59	- 45	SE <sup>b</sup> S	2.3	49.9	-31.2	0.3	84	0			
	2	- 59	- 41	SE <sup>b</sup> S	2.2		-32.7	0.2	83	10°	Cist.		
	4	- 59	- 38	SE	2.1	50.2	-33.8	0.2	83	10°	Cist.		
	6	- 59	- 34		0		-32.9	0.2	83	10°	Cist.		
	8	- 59	- 30	E <sup>b</sup> N		50.5	-31.3	0.3	83	10°	Cist.		*°
	10	- 59	- 27	NE <sup>b</sup> E	2.6		-29.8	0.3	84	10	Cist.		*°
	Mn.	- 59	- 23	NE <sup>b</sup> E	2.8	50.1			84	10	Cist.		*°
Jan. 22.	2	84 59	38 19	N <sup>b</sup> W	1.7		-27.8	0.5	85	10	Cist.		*°
	4	- 59	- 16	NE <sup>b</sup> E	2.2	49.8			85	10	Str.		*°
	6	- 59	- 12	NE <sup>b</sup> E	2.3				86	10	Str.		*°
	8	- 59	- 9	ENE	2.5	47.6	-26.6	0.5	86	10	Cist.		*°
	10	- 59	- 5	E	2.4		-28.7	0.3	85	10°	Cist.		*°
	Noon	- 58	- 1	NE <sup>b</sup> E	2.2	46.4	-28.4	0.4	85	10°	Cist.		*°
	2	- 58	37 58	NE <sup>b</sup> N	2.5		-27.9	0.4	85	10°	Cist.		*°
	4	- 58	- 54	E <sup>b</sup> N	3.4	45.9	-30.5	0.3	84	0			
	6	- 58	- 50	E	3.7		-29.6	0.3	84	10°	Cist.		*°
	8	- 58	- 47	E	3.0	44.9	-32.1	0.3	84	0			
	10	- 58	- 43	E	3.1		-31.9	0.3	84	10°	Cist.		*°
	Mn.	- 58	- 39	E	3.6	44.8			84	10°	Cist.		*° <sup>2</sup>
Jan. 23.	2	84 58	37 36	E	3.4				85	10°	Cist.		*°
	4	- 58	- 32	E	4.1	44.7			86	10°	Cist.		
	6	- 58	- 29	E <sup>b</sup> N	5.1				85	10°	Cist.		
	8	- 58	- 25	E <sup>b</sup> N	4.4	44.7	-32.1	0.3	85	0			<sup>3</sup>
	10	- 58	- 21	E <sup>b</sup> N	3.4		-32.8	0.2	84	10°	Cist.		
	Noon	- 58	- 14	E <sup>b</sup> N	5.6	45.5	-32.2	0.3	84	0			
	2	- 58	- 4	E <sup>b</sup> N	6.6		-34.1	0.2	83	2°	Ci.		
	4	- 58	36 55	E <sup>b</sup> N	7.8	45.8	-34.4	0.2	83	0			
	6	- 58	- 46	E <sup>b</sup> N	6.0		-34.3	0.2	83	0			
	8	- 58	- 36	ENE	8.0	46.3	-33.9	0.2	83	10°	Cist.		
	10	- 58	- 27	E <sup>b</sup> N	7.2		-33.4	0.2	84	10°	Cist.		
	Mn.	- 58	- 18	E <sup>b</sup> N	8.0	47.1			84	0			
Jan. 24.	2	84 58	36 9	ENE	8.5				83	1°	Ci.		
	4	- 58	35 59	E <sup>b</sup> N	6.6	46.9			84	10°	Cist.		
	6	- 57	- 50	NE	8.6				85				
	8	- 57	- 41	NE	8.6	47.1	-34.5	0.2	83	10°	Cist.		<sup>4</sup>
	10	- 57	- 32	NE	8.8		-34.3	0.2	83	2°	Ci.		<sup>5</sup>
	Noon	- 57	- 22	NNE	8.2	46.1	-33.9	0.2	83	10°	Cist.		<sup>6</sup>

<sup>1</sup> 5 p. m. Ci. about SE. Cirrus-belts N to S. <sup>2</sup> Low m. <sup>3</sup> 8, 10 a. m., noon. A few ci. in NE to N. <sup>4</sup> Faint  
<sup>5</sup> Driving snow from the ground. Cirrus-belts converging towards NE and SW. <sup>6</sup> Driving snow from  
the ground.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 24.	2	84° 57'	35° 13'	NNE	8.4		-33.5	0.2	85	10°	Ci. Cist.	NE	*
	4	- 57	- 4	NNE	10.2	743.8	-30.4	0.3	85	10	Str.		*
	6	- 57	34 54	NE b N	9.0		-27.3	0.4	86	10	Str.		* <sup>2</sup>
	8	- 57	- 45	ENE	9.4	42.7	-23.9	0.6	91	10	Str.		* <sup>2</sup>
	10	- 57	- 36	ENE	9.5		-22.8	0.6	92	10	Str.		* <sup>2</sup>
	Mn.	- 57	- 26	ENE	12.1	45.9			93	10	Str.		* <sup>2</sup>
Jan. 25.	2	84 57	34 17	ENE	13.4				89	10	Str.		* <sup>2</sup>
	4	- 57	- 8	NE b E	11.3	49.4				10°	Str.		
	6	- 57	33 59	NE b E	11.0					10°	Cist.		
	8	- 57	- 49	NE b E	9.3	53.0	-30.9			10°	Cist.		
	10	- 57	- 40	NE b E	10.8		-31.3			10°	Cist.		* <sup>2</sup>
	Noon	- 56	- 34	NE b N	11.2	55.5	-32.0	0.3	84	10°	Cist.		* <sup>2</sup>
	2	- 56	- 29	NNE	9.4		-33.0	0.2	84	10°	Cist.		
	4.15	- 55	- 24	NNE	11.3	56.9	-33.7			10	Cist.		* <sup>2</sup>
	6	- 54	- 19	NNE	13.2		-33.1			10	Cist.		* <sup>2</sup>
	8	- 53	- 14	NNE	11.3	57.8	-33.3			10	Cist.		* <sup>2</sup>
	10	- 53	- 9	N b E	9.8		-34.9	0.2	84	10	Cist.		* <sup>2</sup>
	Mn.	- 52	- 3	N b E	11.1	53.9				10	Cist.		
Jan. 26.	2	84 51	32 58	N b E	11.4					10°	Cist.		
	4	- 51	- 53	N b E	9.5	59.3				10°	Cist.		* <sup>2</sup>
	6	- 50	- 48	N b E	7.8					10°	Cist.		* <sup>2</sup>
	8	- 49	- 43	N b W	9.2	59.6	-35.2	0.2	82	10	Cist.		* <sup>2</sup>
	10	- 49	- 38	N b W	10.5		-35.9	0.2	82	10	Cist.		* <sup>2</sup>
	Noon	- 46	- 33	N b W	11.6	61.4	-36.7	0.2	82	10	Cist.		* <sup>2</sup>
	2	- 47	- 27	N b W	11.0		-36.2	0.2	82	10	Cist.		* <sup>2</sup>
	4	- 47	- 22	N b W	10.0	63.1	-35.7	0.2	82	10	Cist.		* <sup>2</sup>
	6	- 46	- 17	N b W	10.9		-35.7	0.2	82	10	Cist.		* <sup>2</sup>
	8	- 45	- 12	NNW	10.3	64.5	-36.0	0.2	82	10	Cist.		* <sup>2</sup>
	10	- 45	- 7	NNW	9.4		-36.1	0.2	82	10	Cist.		* <sup>2</sup>
	Mn.	- 44	- 2	NNW	10.0	66.3			82	10	Cist.		* <sup>2</sup>
Jan. 27.	2	84 43	32 56	NW b N	8.9				82	0			
	4	- 43	- 51	NNW	7.0				81	10°	Cist.		* <sup>3</sup>
	6	- 42	- 46	NNW	7.0				82	0			
	8	- 41	- 41	NNW	6.2	69.3	-38.4	0.1	82	0			
	10	- 40	- 36	NNW	7.3		-38.9	0.1	83	0			
	Noon	- 40	- 35	NW b N	5.6	70.7	-39.7	0.1	82	0			
	2	- 41	- 36	NW	3.7		-40.4	0.1	82	0			
	4	- 41	- 36	WNW	3.7	71.2	-41.0	0.1	82	0			
	6	- 41	- 37	W b S	1.8		-41.4	0.1	81	0			
	8	- 41	- 38	S b E	2.8	69.2	-41.1	0.1	81	0			
	10	- 41	- 38	S b E	4.8		-37.1	0.2	82	10	Cist.		
	Mn.	- 41	- 39	S b E	5.9	66.0			84	10	Str.		
Jan. 28.	2	84 41	31 39	S b W	6.3				78	10	Str.		*
	4	- 41	- 40	S b W	7.0	62.9			81	10	Str.		*
	6	- 41	- 40	S b W	9.5				83	10	Str.		* <sup>2</sup>
	8	- 41	- 41	WSW	6.0	61.0	-24.1	0.5	86	10°	Ci. Cist.		*
	10	- 41	- 41	WSW	5.0		-24.9	0.5	86	3°	Ci.		
	Noon	- 41	- 42	WSW	4.3	60.8	-26.6	0.4	85	1°	Ci.		
	2	- 41	- 42	NNW	3.7		-29.8	0.3	84	1°	Ci.		
	4.30	- 41	- 43	NW b W	2.2	61.4	-33.9	0.2	84	1°	Ci.		
	6	- 42	- 43	NW b N	2.0		-34.2	0.2	85	10°	Cist.		
	8	- 42	- 44	NW b W		61.3	-35.6	0.2	84	10°	Cist.		
	10	- 42	- 44	NE b N	1.6		-35.7	0.2	84	10°	Cist.		
	Mn.	- 42	- 45	ENE	3.2	61.0			83	10°	Cist.		
Jan. 29.	2	84 42	31 45	E b N	3.1				83	0			
	4	- 42	- 46	E b S	3.4	60.3			84	10°	Ci.		
	6	- 42	- 45	E b S	3.6				84	0			

<sup>1</sup> U. <sup>2</sup> U. <sup>3</sup> U.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Jan. 29.	8	84° 42'	31° 47'	E <sup>b</sup> S	5.1	758.5	-35.3	0.2	84	10°	Ci. Cist.		1
	10	- 42	- 47	ESE	6.0		-32.9	0.2	84	10	Str.		
	Noon	- 42	- 48	SE <sup>b</sup> E	7.0	56.6	-29.1	0.3	85	10	Cist.		
	2	- 42	- 45	SE	9.2		-28.8	0.4	87	10	Ci. Cist.		
	4	- 43	- 42	SE <sup>b</sup> S	11.2	54.2	-27.2	0.5	87	10	Str.		
	6	- 43	- 39	SE <sup>b</sup> S	9.8		-26.9	0.5	87	4	Ci. Cist.		
	8	- 44	- 35	SE <sup>b</sup> S	12.2	51.2	-24.4	0.6	88	10	Str.		
	10	- 44	- 32	SE <sup>b</sup> S	10.5		-23.4	0.6	90	10	Str.		
	Mn.	- 44	- 28	SSE	9.9	49.6			91	10	Str.		
Jan. 30.	2	84 45	31 25	SSE	8.9				94	10	Str.		* <sup>2</sup>
	4	- 45	- 21	SSE	9.4	48.5			94	10	Str.		
	6	- 46	- 18	SSE	8.1					10	Str.		
	8	- 46	- 14	SE <sup>b</sup> S	9.5	47.9	-19.5	0.9	95	10	Str.		
	10	- 46	- 11	SSE	7.8		-18.1	1.0	96	10	Str.		
	Noon	- 47	- 7	SE <sup>b</sup> S	8.0	48.5	-16.8	1.1	97	10	Str.		
	2	- 47	- 4	SSE	10.7		-16.8	1.1	98	10	Str.		
	4	- 48	- 0	SSE	8.8	49.2	-16.5	1.2	98	10	Str.		
	6	- 48	30 57	SE <sup>b</sup> S	9.0		-16.7	1.2	99	10	Str.		
	8	- 48	- 53	SE <sup>b</sup> S	10.4	50.8	-17.1	1.1	99	10	Str.		
	10	- 49	- 50	SE	10.1		-18.0	1.1	98	10	Str.		
	Mn.	- 49	- 46	SE	8.4	52.8			97	10			
Jan. 31.	2	84 50	30 43	SE	8.3				98	10	Str.		* <sup>2</sup>
	4	- 50	- 39	SE	7.1	54.4			98	10	Str.		
	6	- 50	- 36	SE <sup>b</sup> E	6.3				97	10°	Cist.		
	8	- 51	- 32	SE <sup>b</sup> E	5.0	56.4	-22.9	0.6	96	10	Cist.		
	10	- 51	- 29	ESE	4.6		-23.1	0.6	96	10°	Cist.		
	Noon	- 52	- 25	ESE	4.9	57.9	-23.0	0.6	96	10	Cist.		
	2	- 51	- 18	ESE	3.8		-24.6	0.5	96	8	Ci. Cust.	SE	
	4	- 51	- 10	SE <sup>b</sup> E	3.1	58.2	-26.4	0.6	96	3	Cust.		
	6	- 51	- 2	SE <sup>b</sup> E	3.4		-24.9	0.6	96	5	Cust.		
	8	- 51	29 53	SE <sup>b</sup> E	3.0	57.7	-28.4	0.4	95	0			
	10	- 51	- 44	SE	4.0		-28.1	0.4	95	5°	Ci.	W	
Febr. 1.	Mn.	- 51	- 36	SE <sup>b</sup> E	3.8	56.6			95	8°	Cicu.		
	2	84 51	29 28	SE	3.0				93	5	Ci.		2
	4	- 51	- 19	SE	4.0	54.8			93	10°	Cist.		
	6	- 51	- 11	SE <sup>b</sup> S	6.4				95	10	Str.		
	8	- 50	- 2	SE	6.5	52.7	-25.4	0.5	94	0			
	10	- 50	28 54	SE <sup>b</sup> E	5.7		-25.4	0.5	93	0			
	Noon	- 50	- 45	SE <sup>b</sup> E	8.0	50.8	-24.7	0.5	95	0			
	2.15	- 50	- 36	ESE	8.2		-24.1	0.6	94	10°	Cist.		
	4	- 50	- 28	ESE	9.0	48.0	-23.8	0.6	94	10°	Cist.		
	6	- 50	- 20	E <sup>b</sup> S	8.5		-23.2	0.6	95	10°	Cist.		
	8	- 50	- 11	E <sup>b</sup> S	9.8	44.6	-23.3	0.7	95	10	Cist.		
	10	- 50	- 3	E <sup>b</sup> S	11.7		-20.7	0.8	95	10	Str.		
	Mn.	- 50	27 55	E <sup>b</sup> S	11.4	42.3			97	10	Str.		
Febr. 2.	2.30	84 49	27 44	E <sup>b</sup> S	11.2					10°	Str.		* <sup>2</sup>
	4	- 49	- 38	E	10.5	42.1			95	10	Str.		
	6	- 49	- 29	E	10.0				92	10°	Str.		
	8	- 49	- 21	ENE	12.6	40.9	-24.8	0.5	88	10			
	10	- 49	- 12	ENE	13.1		-24.9	0.5	92	10	Cist.		
	Noon	- 49	- 4	NE <sup>b</sup> E	14.7	39.8	-25.7	0.5	93	10	Str.		
	2	- 49	26 55	NE <sup>b</sup> E	16.0		-25.2			10	Str.		
	4	- 49	- 47	NE <sup>b</sup> E	15.4	40.5	-26.1			10	Str.		
	6	- 48	- 38	NE	15.9		-27.1			10	Str.		
	8	- 48	- 30	NE <sup>b</sup> N	17.2	41.0	-26.8	0.5	93	10	Str.		
	10	- 48	- 22	NE <sup>b</sup> N	17.0		-26.4	0.5	93	10	Str.		
	Mn.	- 48	- 13	NE <sup>b</sup> N	16.0	42.8				10	Str.		

<sup>1</sup> Cirrus-belts E to W. — on the thermometers. <sup>2</sup> Thick bank of clouds on the horiz. from SW over N to SE.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am	Form.	Dir.	
Febr. 3.	2	84° 48'	26° 5'	NE <sup>b</sup> E	15.2					10	Str.		* <sup>2</sup>
	4	- 48	25 56	NE <sup>b</sup> E	12.6	745.0				10	Str.		* <sup>2</sup>
	6	- 48	- 48	NE <sup>b</sup> E	11.4					10	Str.		* <sup>2</sup>
	8	- 48	- 39	NE <sup>b</sup> N	10.7	47.9	-31.3	0.3	92	10°	Cist.		* <sup>2</sup>
	10	- 48	- 31	NNE	12.5		-33.0	0.3	93	10°	Cist.		* <sup>2</sup>
	Noon	- 47	- 22	NNE	13.5	49.8	-33.5	0.3	92	10°	Cist.		* <sup>2</sup>
	2	- 47	- 19	N	9.3		-34.4	0.2	92	10°	Cist.		
	4	- 47	- 18	N	11.6	52.0	-35.6	0.2	91	10°	Cist.		
	6	- 46	- 16	N	10.3		-36.2	0.2	90	0			1
	8	- 46	- 14	N	11.0	53.7	-36.9	0.2	90	0			
	10	- 46	- 12	N <sup>b</sup> W	8.7				90	0			
	Mn.	- 45	- 10	N <sup>b</sup> W	6.6	55.4			90	0			
Febr. 4.	2	84 45	25 9	N	7.2				89	0			
	4	- 45	- 7	N	8.0	56.0			90	0			
	6	- 44	- 5	N <sup>b</sup> W	6.8				89	0			2
	8	- 44	- 3	NNW	5.0	56.3	-41.3	0.1	89	0			
	10	- 44	- 1	NNW	5.2		-40.9	0.1	87	0			
	Noon	- 43	- 0	NNW	4.7	57.4	-40.9	0.1	85	0			
	2	- 43	24 58	NW <sup>b</sup> N	3.9		-41.3	0.1	86	0			3
	4	- 43	- 56	NW <sup>b</sup> N	4.1	57.7	-41.6	0.1	86	0			
	6	- 42	- 54	NNW	3.8		-41.4	0.1	86	0			
	8	- 42	- 52	NW <sup>b</sup> N	2.8	57.8	-41.9	0.1	87	0			
	10	- 42	- 51	NW <sup>b</sup> N	2.7		-42.0	0.1	87	0			
	Mn.	- 41	- 49	N <sup>b</sup> W	2.4	58.4			87	0			
Febr. 5.	2	84 41	24 47	N	2.0				85	0			
	4	- 41	- 45	NW <sup>b</sup> W	1.5	58.8			86	0			
	6	- 40	- 43	NW <sup>b</sup> W	1.8				85	0			
	8	- 40	- 42		0	58.8	-40.8	0.1	86	0			
	10	- 40	- 40	SW <sup>b</sup> S	1.8		-40.0	0.1	86	0			
	Noon	- 39	- 38	SSW	2.2	58.8	-39.9	0.1	86	10°	Cist.		4
	2	- 39	- 38	SW	2.7		-39.8	0.1	86	0			
	4	- 39	- 38	SSW	3.2	57.9	-39.1	0.1	87	0			
	6	- 39	- 37	SW <sup>b</sup> S	3.2		-39.1	0.1	86	0			
	8	- 39	- 37	SW <sup>b</sup> S	2.8	57.4	-39.6	0.1	86	0			
	10	- 39	- 37	W <sup>b</sup> S	3.0		-39.6	0.1	87	0			
	Mn.	- 39	- 37	NW <sup>b</sup> W	3.2	57.5			87	0			
Febr. 6.	2	84 39	24 37	NW	3.3				86	0			
	4	- 39	- 37	NNW	2.6	58.1			87	0			
	6	- 39	- 36	NNW	2.4				87	0			
	8	- 39	- 36	N <sup>b</sup> W	2.4	59.1	-38.9	0.1	87	0			
	10	- 39	- 36	N <sup>b</sup> E	3.0		-39.1	0.1	87	0			
	Noon	- 39	- 36	NN <sup>w</sup>	2.1	59.9	-40.0	0.1	87	0			
	2	- 39	- 36	N <sup>b</sup> E	2.5		-39.9	0.1	87	0			
	4	- 39	- 36	NE <sup>b</sup> N	1.6	59.8	-39.1	0.1	87	0			
	6	- 39	- 35	N <sup>b</sup> E			-39.0	0.1	87	0			
	8	- 39	- 35	E <sup>b</sup> N	1.5	59.2	-39.9	0.1	87	0			
	10	- 38	- 35	SE	2.4		-40.6	0.1	87	0			
	Mn.	- 38	- 35	SE <sup>b</sup> S	2.2	58.7			87	0			
Febr. 7.	2	84 38	24 35	SE	2.3				86	0			
	4	- 38	- 35	SE	2.0	58.4			86	0			
	6	- 38	- 34	SE	2.6				86	0			
	8	- 38	- 34	SE <sup>b</sup> S	3.0	57.6	-40.9	0.1	87	0			
	10	- 38	- 34	SE <sup>b</sup> S	3.0		-40.2	0.1	86	0			
	Noon	- 38	- 34	SE <sup>b</sup> S	3.3	57.8	-40.7	0.1	86	0			

<sup>1</sup> Unusually clear; the Milky Way visible. <sup>2</sup> Unusually clear. <sup>3</sup> A bank of ci. clouds came up in SE. <sup>4</sup> Cirrus-belts converging towards S. <sup>5</sup> Unusually clear.



1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Febr. 7.	2	84° 38'	24° 34'	SE b S	3.1		-40.9	0.1	86	0			
	4	- 38	- 34	SE b S	3.8	757.2	-40.9	0.1	87	0			
	6	- 38	- 33	SE b S	3.2		-40.6	0.1	87	0			
	8	- 38	- 33	SE b S	2.5	56.6	-40.9	0.1	86	0			
	10	- 38	- 33	SE b E	2.7		-41.4	0.1	87	0			
	Mn.	- 38	- 33	SE b E	2.4	56.6			86	0			
Febr. 8.	2	84 38	24 33	ESE	2.8				87	0			
	4	- 38	- 33	ESE	1.2	56.7			87	0			
	6	- 38	- 32	ENE	1.6				87	0			
	8	- 38	- 32	N	2.2	57.8	-41.9	0.1	87	0			
	10	- 38	- 32	NW b N	1.6		-42.2	0.1	86	0			
	Noon	- 37	- 31	NW b N	2.0	58.6	-42.9	0.1	87	0			
	2	- 37	- 32	WNW	2.0		-42.7	0.1	86	0			
	4	- 37	- 33	N b W	3.4	59.6	-42.6	0.1	86	0			
	6	- 37	- 34	N b W	2.6		-42.1	0.1	87	0			
	8	- 37	- 34	NW	3.3	59.9	-42.7	0.1	87	0			
	10	- 36	- 35	NW	3.2		-43.2	0.1	86	0			
	Mn.	- 36	- 36	NW	2.2	60.4			87	0			
Febr. 9.	2	84 36	24 37	NW b N	2.6				86	0			
	4	- 36	- 38	NW b W	3.2	60.5			86	0			
	6	- 36	- 38	NW	3.5				86	0			
	8	- 36	- 39	NNE	2.8	59.6	-41.8	0.1	87	10	Str.		
	10	- 35	- 40	E b N	2.8		-40.9	0.1	87	10	Str.		*°
	Noon	- 35	- 41	ENE	2.3	59.2	-39.5	0.1	87	10	Str.		
	2	- 35	- 42	ENE	2.0		-38.4	0.2	88	10	Str.		
	4	- 35	- 42	E	2.8	57.9	-37.7	0.2	88	10	Str.		*°
	6	- 35	- 43	E b N	4.0		-36.8	0.2	88	10	Cist.		
	8	- 35	- 44	E b N	4.4	56.7	-35.9	0.2	88	10	Str.		*°
	10	- 34	- 45	ENE	4.8		-34.9	0.2	88	10	Str.		*°
	Mn.	- 34	- 45	E b N	5.4	55.3			88	10	Str.		
Febr. 10.	2	84 34	24 46	E b N	5.6				89	10	Cist.		
	4	- 34	- 47	E b N	6.2	53.0			88	10	Str.		
	6	- 34	- 48	E b N	4.8				90	10°	Cist.		
	8	- 34	- 49	E b N	6.4	51.2	-31.7	0.3	89	10	Str.		
	10	- 33	- 49	E b N	7.0		-30.8	0.3	89	10	Str.		
	Noon	- 33	- 50	ENE	7.1	48.6	-29.1	0.3	90	10	Str.		*°
	2	- 33	- 51	NE b E	8.4		-27.9	0.4	91	10	Str.		*°
	4.15	- 33	- 52	NE	7.5	44.4	-26.7	0.5	92	10	Str.		*°
	6	- 33	- 52	NE b N	7.5		-26.8	0.5	92	10	Str.		*°
	8	- 33	- 53	NNE	9.4	43.0	-28.3	0.4	92	10°	Cist.		*°
	10	- 32	- 54	N	10.7		-31.5	0.3	91	10°	Cist.		*°
	Mn.	- 32	- 55	N	11.2	44.5			91	10°	Ci.		
Febr. 11.	2	84 32	24 56	N b W	11.0				91	10°	Cist.		
	4	- 32	- 56	N b W	11.0	48.3				10	Cist.		
	6	- 32	- 57	N b W	13.2					10°	Cist.		
	8	- 32	- 58	NNW	9.9	51.6	-36.1	0.2	91	10°	Cist.		
	10	- 31	- 59	NNW	11.5		-41.3	0.1	90	10°	Cist.		
	Noon	- 31	- 56	NNW	8.6	54.6	-43.4	0.1	89	10°	Cist.		
	2	- 31	- 50	NNW	9.8		-43.7	0.1	89	10°	Cist.		*°
	4	- 30	- 45	NNW	10.2	55.9	-43.9	0.1	89	10°	Cist.		
	6	- 29	- 39	NNW	8.2		-43.8	0.1	89	10°	Cist.		
	8	- 29	- 34	N b W	8.8	57.1	-44.3	0.1	89	10°	Cist.		
	10	- 28	- 29	NNW	9.2		-44.8	0.1	88	10°	Cist.		
	Mn.	- 28	- 23	N b W	7.5	57.8			88	10°	Cist.		
Febr. 12.	2	84 27	24 18	NNW	8.0				88	0			
	4	- 27	- 12	NNW	7.8	58.9			88	10°	Cist.		
	6	- 26	- 7	NNW	9.8				89	0			
	8	- 26	- 1	NNW	9.6	59.8	-44.9	0.1	88	10°	Ci. Cist.		

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Febr. 12.	10	84° 25'	23° 56'	NNW	8.6				88	10°	Ci. Cust.		
	Noon	- 24	- 51	NNW	8.6	760.8	-44.9	0.1	88	10°	Ci. Cust.		
	2	- 24	- 45	NNW	7.4		-44.9	0.1	88	10°	Cist. Cicu.	ESE	
	4	- 23	- 40	NNW	10.0	61.5	-44.9	0.1	88	10	Cist.		
	6	- 23	- 34	NNW	8.0		-44.2	0.1	88	10	Cist.		
	8	- 22	- 29	NNW	7.2	62.9	-44.0	0.1	88	10°	Cist.		
	10	- 22	- 23	NW b N	8.0		-43.4	0.1	89	10°	Cist.		
	Mn.	- 21	- 18	NNW	7.2	64.3	-43.9	0.1	89	10°	Cist.		
Febr. 13.	2	84 20	23 13	NW b N	8.2				89	0			
	4	- 20	- 7	NNW	6.0	64.9			88	0			
	6	- 19	- 2	NNW	6.3				89	0			
	8	- 19	22 56	NW b N	3.8	65.8	-45.9	0.1	88	0			
	10	- 18	- 51	NW b N	3.6		-46.8	0.1	88	0			
	Noon	- 18	- 46	NW	3.6	66.3	-46.9	0.1	88	0			
	2	- 18	- 45	W b N	2.4		-47.0	0.1	88	10°	Cist.		1
	4	- 18	- 46	W b N	2.8	66.2	-47.1	0.1	88	10°	Cist.		
	6	- 18	- 46	W b N	2.5		-47.1	0.1	87	0			
	8	- 18	- 47	SW b W	2.2	66.1	-46.8	0.1	87	0			2
	10	- 18	- 47	S	1.9		-46.1	0.1	88	0			3
	Mn.	- 18	- 48	S b E	2.7	66.0			88	0			
Febr. 14.	2	84 18	22 48	S b E	3.6				88	0			
	4	- 19	- 49	SSE	4.5	64.8			88	0			
	6	- 19	- 50	S b E	3.8				88	0			
	8.15	- 19	- 50	S b E	4.6	62.9	-40.9	0.1	89	10°	Ci. Cist.		
	10	- 19	- 51	SSE	5.2		-38.9	0.1	89	10	Cist.		
	Noon	- 19	- 51	SE b S	7.2	60.5	-36.8	0.2	90	10	Cist.		
	2	- 19	- 52	SSE	7.0		-34.8	0.2	90	10	Str.		
	4	- 19	- 53	SSE	6.9	57.5	-33.1	0.3	90	10	Str.		
	6	- 20	- 53	SSE	8.3		-32.6	0.3	91	10°	Cist.		
	8	- 20	- 54	SSE	6.4	54.9	-32.0	0.3	91	10	Str.		
	10	- 20	- 54	SE b S	7.2		-31.9	0.3	92	10	Cist.		
	Mn.	- 20	- 55	SE b S	7.8	53.0			92	10	Str.		
Febr. 15.	2	84 20	22 55	SE b S	5.5				92	10	Str.		* <sup>2</sup>
	4	- 20	- 56	S b E	5.2	51.2			91	10	Str.		* <sup>0</sup>
	6	- 20	- 57	S b E	3.4				91	10	Str.		* <sup>0</sup>
	8	- 20	- 57	S b W	3.3	49.9	-32.0	0.3	92	10°	Ci.	W	* <sup>0</sup>
	10	- 21	- 58	NW b W	4.7		-36.7	0.2	91	10	Cist.		4
	Noon	- 21	- 58	WNW	3.8	50.1	-40.3	0.1	90	10°	Cist.		
	2	- 20	- 57	WNW	3.8		-41.7	0.1	90	1°	Ci.	W & NW	
	4	- 20	- 57	WNW	3.8	49.3	-41.9	0.1	89	10°	Cist.		
	6	- 20	- 57	WSW	3.8		-41.9	0.1	89	10°	Cist.		
	8	- 19	- 56	WSW	4.3	47.8	-42.0	0.1	89	0			
	10	- 19	- 56	W b N	3.6		-41.9	0.1	89	0			
	Mn.	- 19	- 55	W b N	3.1	46.9			89	0			
Febr. 16.	2	84 19	22 55	NW	4.8				89	0			
	4	- 18	- 54	NW	4.2	46.0			89	0			
	6	- 18	- 54	NW	3.0				89	0			
	8	- 18	- 54	NW b N	5.6	45.2	-41.4	0.1	90	0			
	10	- 18	- 53	NNW	6.1		-41.0	0.1	90	0			
	Noon	- 17	- 53	NNW	7.0	45.6	-40.9	0.1	90	0			
	2	- 17	- 52	NNW	6.6		-41.4	0.1	90	0			
	4.15	- 17	- 52	NW b N	6.0	46.4	-41.9	0.1	90	0			
	6	- 16	- 51	NW b N	5.8		-42.0	0.1	90	0			
	8	- 16	- 51	NW b N	5.4	47.0	-42.3	0.1	89	0			
	10	- 16	- 50	NW b N	6.1		-42.8	0.1	89	0			
	Mn.	- 16	- 50	NW	6.0	48.7			89	0			

<sup>1</sup> 2, 4 p. m. Frost-fog over the ice from the lanes astern. <sup>2</sup> Unusually clear. <sup>3</sup> Unusually clear; the Milky Way visible. <sup>4</sup> Rather thick bank on the SE horiz. between SW and NE. <sup>5</sup> Unusually clear.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Febr. 17.	2	84° 15'	22° 50'	NW	6.0				89	0			
	4	- 15	- 49	WNW	4.2	749.4			89	0			
	6	- 15	- 49	W <sup>b</sup> N	4.3				89	0			
	8	- 15	- 48	W	3.7	50.6	-44.1	0.1	88	0			
	10	- 14	- 48	W	4.7		-44.4	0.1	88	0			
	Noon	- 14	- 47	W <sup>b</sup> S	4.6	50.7	-44.6	0.1	88	0			
	2	- 14	- 47	WSW	2.8		-44.8	0.1	89	0			
	4	- 14	- 47	SW <sup>b</sup> W	2.6	49.4	-44.4	0.1	88	0			
	6	- 13	- 46	S	2.6		-44.6	0.1	87	0			
	8	- 13	- 46	S	2.1	46.4	-43.7	0.1	89	0			
	10	- 13	- 45	SE	3.5		-41.3	0.1	90	10°	Str.		*°
	Mn.	- 12	- 45	SE <sup>b</sup> E	3.6	42.1	-38.9	0.1	90	10°	Cist.		*°
Febr. 18.	2	84 12	22 45	NE <sup>b</sup> E	4.8		-37.7	0.2	90	10	Str.		*°
	4	- 12	- 44	NE <sup>b</sup> E	6.2	36.9	-36.9	0.2	91	10	Str.		*°
	6	- 12	- 44	NE	9.2		-36.9	0.2	90	10	Str.		*°
	8	- 11	- 43	NNE	8.2	34.2	-35.7	0.2	91	10	Str.		*°
	10	- 11	- 43	NNE	6.7		-35.7	0.2	90	10	Cist.		*°
	Noon	- 11	- 42	N <sup>b</sup> W	7.6	36.5	-37.9	0.2	90	10°	Cist.		
	2	- 11	- 42	NNW	7.3		-42.5	0.1	90	0			
	4	- 10	- 42	NW <sup>b</sup> N	5.0	40.9	-42.8	0.1	88	10°	Cist.		
	6	- 10	- 44	NW	5.4		-44.9	0.1	88	0			
	8	- 10	- 47	NW <sup>b</sup> W	6.0	41.5	-45.0	0.1	87	0			
	10	- 9	- 49	WNW	6.0		-44.9	0.1	88	0			1
	Mn.	- 9	- 51	WNW	5.0	44.2	-43.9	0.1	87	0			
Febr. 19.	2	84 9	22 54	WNW	6.5		-44.4	0.1	87	0			
	4	- 8	- 56	W <sup>b</sup> N	5.2	45.8	-42.9	0.1	88	0			
	6	- 8	- 58	W <sup>b</sup> S	4.8		-42.9	0.1	88	0			
	8	- 8	23 1	W <sup>b</sup> S	5.1	48.0	-42.7	0.1	88	0			
	10	- 7	- 3	W	5.7		-42.2	0.1	88	0			
	Noon	- 7	- 6	W <sup>b</sup> N	6.0	50.2	-41.9	0.1	88	0			
	2	- 6	- 8	W <sup>b</sup> N	6.5		-41.4	0.1	88	0			
	4.15	- 6	- 11	W <sup>b</sup> S	5.6	53.4	-41.6	0.1	88	0			
	6	- 6	- 13	WNW	7.2		-40.9	0.1	88	0			
	8	- 5	- 15	WNW	6.3	56.5	-40.9	0.1	88	0			
	10	- 5	- 18	WNW	6.0		-40.9	0.1	88	0			2
	Mn.	- 5	- 20	WNW	6.0	60.7			88	0			
Febr. 20.	2	84 4	23 22	WNW	4.0				88	0			
	4	- 4	- 25	WNW	4.3	63.3			88	0			
	6	- 4	- 27	WNW	2.2		-40.9	0.1	88	0			
	8	- 3	- 29	WNW	2.2	65.3	-42.6	0.1	88	0			
	10	- 3	- 32	WNW	1.7		-42.8	0.1	88	0			
	Noon	- 3	- 34		0	67.1	-42.9	0.1	88	0			
	2	- 3	- 35	E	2.0		-41.8	0.1	89	10°	Ci. Cist.		
	4	- 3	- 37	E <sup>b</sup> S	2.4	66.7	-42.5	0.1	87	10°	Cist.		
	6	- 3	- 39	ESE	4.0		-41.5	0.1	87	10°	Cist.		
	8	- 3	- 41	ESE	7.6	64.1	-39.4	0.1	87	10°	Cist.		
	10.30	- 3	- 43	E <sup>b</sup> S	8.6		-37.1	0.2	88	10°	Cist.		
	Mn.	- 3	- 44	E <sup>b</sup> S	8.2	60.1			88	10	Cist.		
Febr. 21.	2	84 3	23 46	E <sup>b</sup> S	8.7				90	10	Str.		*°
	4	- 3	- 47	ESE	10.5	51.7			91	10	Str.		*°
	6	- 3	- 49	SE <sup>b</sup> E	15.6				92	10	Str.		*°
	8	- 3	- 51	SE <sup>b</sup> E	13.2	46.8	-25.6	0.5	94	10	Str.		*°
	10	- 3	- 53	SE <sup>b</sup> E	13.7		-22.6	0.7	95	10	Str.		*°
	Noon	- 3	- 54	SE	9.4	42.0	-20.1	0.8	96	10	Str.		*°
	2	- 3	- 56	SE <sup>b</sup> S	8.0		-17.1	1.1	97	10°	Cicu.Cist.	S	*
	4	- 3	- 58	SE	5.6	38.3	-15.3	1.3	100	10°	Str.		*

<sup>1</sup> 10 p. m. and Midn. Unusually clear. <sup>2</sup> Unusually clear.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form	Dir.	
Febr. 21.	6	84° 3'	24° 0'	SE <sup>b</sup> E	5.2		-12.4	1.7	100	10°	Str.		*
	8	- 3	- 1	S <sup>b</sup> E	5.2	735.6	- 6.9	2.7	100	10°	Str.		*
	10	- 3	- 3	SSE	6.3		- 6.4	2.6	96	10	Cu.		
	Mn.	- 3	- 5	SSE	7.2	34.5			92	10	Str.	SW	
Febr. 22.	2	84 3	24 6	SE <sup>b</sup> S	4.8		- 8.4	2.2	93	10	Str.		*
	4	- 3	- 8	SE <sup>b</sup> E	6.2	29.4			92	10°	Ci.		
	6	- 3	- 10	SE	4.4				92	10	Str.		*
	8	- 3	- 12	S	9.5	24.8	- 9.5	2.0	92	10	Str.		*
	10	- 3	- 13	S <sup>b</sup> E	10.7		-17.3	0.9	80	10°	Str.		*
	Noon	- 3	- 15	SW <sup>b</sup> S	13.4	25.2	-21.3	0.6	80	10	Str.		*
	2	- 3	- 17	SW	12.4		-23.0			10	Str.		*
	4	- 3	- 18	SW	16.0	26.8	-23.9			10	Str.		*
	6	- 3	- 20	SW <sup>b</sup> W	18.0		-24.1			10	Str.		*
	8	- 3	- 22	WSW	14.8	27.6	-24.1			10	Str.		*
	10	- 3	- 24	WSW	12.5		-24.5			10	Str.		*
	Mn.	- 3	- 25	WSW	12.0	28.5				10	Str.		
Febr. 23.	2	84 3	24 27	WSW	9.0					10	Str.		
	4	- 3	- 29	W	11.0	28.5				10	Str.		
	6	- 3	- 30	W <sup>b</sup> S	13.0					10	Str.		
	8	- 3	- 32	WNW	9.0	30.3	-23.3	0.6	95	10	Str.		*°
	10	- 3	- 34	WNW	10.9		-23.4	0.6	95	10	Str.		
	Noon	- 3	- 36	WNW	9.7	34.9	-23.1	0.7	97	10	Str.		*
	2	- 3	- 37	NW	10.0		-23.0	0.6	95	10	Cust.		
	4	- 3	- 39	NW	11.9	43.0	-24.4	0.6	95	10	Str.		
	6	- 3	- 41	NW	9.1		-25.7	0.5	94	10°	Str.		*
	8	- 3	- 43	WNW	7.1	48.7	-27.9	0.4	92	10°	Ci.	WNW	
	10	- 3	- 42	NW <sup>b</sup> W	5.0		-28.1	0.4	92	10°	Ci. Cist.		
	Mn.	- 3	- 40	NW <sup>b</sup> W	5.2	53.6			92	10°	Cist.		
Febr. 24.	2	84 4	24 39	W	2.6				91	0			
	4	- 4	- 37	WNW	1.8	55.9			91	0			
	6	- 5	- 36		0				91	0			
	8.15	- 5	- 34	SE <sup>b</sup> E	4.8	54.5	-28.9	0.4	91	10	Cist.		
	10	- 5	- 33	SE	6.3		-26.4	0.5	93	10	Str.		
	Noon	- 6	- 31	SE	10.3	51.1	-25.9	0.5	92	10	Str.		*
	2	- 6	- 30	SE	11.0		-25.3	0.5	93	10	Str.		*
	4	- 7	- 28	SE <sup>b</sup> E	17.0	44.2	-23.1	0.6	93	10	Str.		*
	6	- 7	- 27	SE	15.4		-21.9	0.7	94	10	Str.		*
	8	- 7	- 25	SE	15.3	36.1	-20.1	0.8	95	10	Str.		*
	10	- 8	- 24	SE <sup>b</sup> S	15.1		-18.2	1.0	96	10	Str.		*
	Mn.	- 8	- 22	SE <sup>b</sup> S	9.5	32.0			100	10	Str.		*
Febr. 25.	2	84 9	24 21	SE <sup>b</sup> S	5.2				100	10	Str.		
	4	- 9	- 19	SSW	5.8	33.9				10°	Str.		*
	6	- 9	- 18	SW	9.4					10°	Str.		
	8	- 10	- 16	SSW	3.5	37.1	-25.0	0.5	93	0			
	10	- 10	- 14	SSE	5.4		-25.6	0.5	94	10	Cust.	W	
	Noon	- 11	- 13	SE <sup>b</sup> S	5.0	37.1	-22.9	0.6	95	10°	Str.		
	2	- 11	- 11	SE <sup>b</sup> E	5.8		-21.9	0.8	97	10	Str.		*°
	4	- 11	- 10	SE	6.3	33.7	-18.7	1.0	98	9	Cust.	W	
	6	- 12	- 11	SSW	8.3		-17.9	1.1	98	0			*
	8	- 12	- 15	S <sup>b</sup> W	6.3	34.8	-23.4	0.6	96	0			
	10	- 12	- 19	S <sup>b</sup> W	6.7		-25.3	0.5	93	8°	Ci. Cicu.	SW	
	Mn.	- 12	- 23	S <sup>b</sup> W	3.8	36.2			96	10	Cist.		*
Febr. 26.	2	84 12	24 27	ENE	4.0				98	10	Str.		*
	4	- 12	- 30	ENE	5.8	30.2			98	10	Str.		*
	6	- 12	- 34	SE <sup>b</sup> E	4.4				96	10	Str.		*
	8	- 12	- 38	S	15.7	24.7	-16.3			10	Str.		*
	10	- 12	- 42	S	18.0		-24.3			10	Cist.		*
	Noon	- 12	- 46	SW	12.4	29.5	-27.9			10	Cist.		*

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Febr. 26.	2	84° 12'	24° 50'	SW	8.2		-28.9	0.4	97	10°	Cist.		* <sup>2</sup>
	4	- 12	- 54	SW	7.0	733.2	-29.1	0.4	94	0			
	6	- 12	- 58	S b W	6.0		-30.2	0.3	93	0			
	8	- 12	25 2	S b W	6.4	34.3	-32.5	0.3	92	0			
	10	- 12	- 6	SSW	5.8		-33.3	0.3	92	0			
	Mn.	- 12	- 10	SW b S	7.4	34.3			92	0			
Febr. 27.	2	84 12	25 14	SW b S	7.6		-32.9	0.3	92	0			W
	4	- 12	- 18	SW	7.8	34.8	-31.9	0.3	93	10°	Cist.		
	6	- 12	- 22	SW	7.8		-31.8	0.3	94	10°	Cist.		
	8	- 12	- 26	SW b W	6.5	36.7	-32.3	0.3	93	10°	Cist.		
	10	- 12	- 30	SW b W	5.9		-32.7	0.3	92	10°	Cist.		
	Noon	- 12	- 34	WSW	5.6	38.1	-32.1	0.3	90	10°	Cist.		
	2	- 12	- 38	SW b W	5.5		-32.9	0.3	92	10°	Cicu.		
	4	- 12	- 42	SW b W	5.0	39.0	-32.6	0.3	91	10°	Cicu.		
	6	- 12	- 44	SW b W	4.4		-33.9	0.2	92	1°	Ci.		
	8	- 12	- 46	WSW	4.6	37.3	-34.2	0.2	92	0			
	10	- 11	- 48	W	3.6		-34.9	0.2	93	0			
	Mn.	- 11	- 49	WSW	4.1	37.7			92	0			
Febr. 28.	2	84 11	25 51	W b S	4.6				92	0			1
	4	- 11	- 52	WSW	4.0	37.3			92	0			
	6	- 10	- 54	SW b W	2.8				92	0			
	8	- 10	- 56	SW b W	4.2	36.8	-37.0	0.2	92	0			
	10	- 10	- 57	WSW	3.4		-36.7	0.2	91	0			
	Noon	- 10	- 59	SW b W	3.0	36.9	-37.7	0.2	91	0			
	2	- 10	26 0	SW b W	2.9		-37.9	0.2	91	0			
	4.15	- 9	- 2	SW b S	3.6	36.5	-35.6	0.2	91	3°	Ci.		
	6	- 9	- 4	SW b S	4.0		-34.8	0.2	92	1°	Ci.		
	8	- 9	- 5	W b S	5.3	36.1	-32.6	0.2	93	10°	Cist.		
	10	- 9	- 7	WNW	4.9		-32.9	0.2	94	10°	Cist.		
	Mn.	- 8	- 8	WNW	4.8	38.6			93	10			
Febr. 29.	2	84 8	26 10	WNW	4.1				94	0			
	4	- 8	- 11	W b N	4.8	39.9			94	10°	Ci.		
	6	- 8	- 13	WNW	5.8				94	10°	Cist.		
	8	- 7	- 15	W	5.1	42.8	-34.0	0.2	94	10°	Cist.		
	10	- 7	- 16	W	5.0		-34.4	0.2	93	10°	Cist.		
	Noon	- 7	- 18	W	5.2	44.9	-34.6	0.2	93	10°	Cist.		
	2	- 7	- 19	W b S	5.0		-34.3	0.2	93	10°	Cist.		
	4	- 6	- 21	W	6.4	47.2	-33.9	0.2	92	10°	Cist.		
	6	- 6	- 21	W	3.3		-34.8	0.2	92	0			
	8	- 6	- 21	W	3.4	49.2	-34.8	0.2	92	10°	Cist.		
	10	- 6	- 20	SW b W	3.2		-34.8	0.2	93	10°	Cist.		
	Mn.	- 7	- 20	W b S	5.1	51.3			92	10°	Cist.		
March 1.	2	84 7	26 19	SW	3.2				94	10°	Cist.		
	4	- 7	- 19	SW	4.6	53.0			92	10°	Cist.		
	6	- 7	- 18	SW	4.5				93	10°	Cist.		
	8	- 7	- 18	SW b W	4.7	55.0	-31.3	0.3	93	10°	Cist.		
	10	- 7	- 17	WSW	4.4		-31.4	0.3	94	10°	Cist.		
	Noon	- 7	- 17	W b S	3.8	57.9	-32.6	0.3	95	3°	Ci.		
	2	- 7	- 16	NW b N	2.4		-34.3	0.2	95	10°	Cist.		
	4	- 7	- 16	S	2.6	60.0	-35.2	0.2	93	0			
	6	- 7	- 16	S	2.2		-35.2	0.2	93	0			
	8	- 7	- 15	E	2.7	61.1	-37.9	0.2	93	3°	Ci.		
	10	- 7	- 15	E	3.1		-37.7	0.2	94	1°	Ci.		
	Mn.	- 7	- 14	E	3.7	61.1				1°	Ci.		

<sup>1</sup> A fan of ci. on the horiz. in W. <sup>2</sup> 8, 10 p. m. Cirrus-belts converging towards W. <sup>3</sup> Ci. in NE.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 2.	2	84° 7'	26° 14'	E	5.6				95	0			
	4	- 7	- 13	E	6.4	759.2			95	0			
	6	- 7	- 13	E b S	5.1				96	0			
	8	- 7	- 12	ESE	5.6	58.2	-27.9	0.5	98	10	Str.		
	10	- 7	- 12	E b S	4.4		-25.9	0.6	99	10	Str.		*°
	Noon	- 7	- 11	SE	5.8	58.1	-22.9	0.7	98	10	Str.		*°
	2	- 8	- 11	SE	7.1		-25.2	0.6	97	10°	Ci. Cist.	SSW	
	4	- 8	- 10	SE	7.8	58.0	-25.5	0.6	96	10	Str.		
	6	- 8	- 10	SE	8.0		-26.2	0.5	95	10	Str.		
	8	- 8	- 9	SE b S	9.8	58.2	-27.0	0.5	92	10	Str.		
	10	- 8	- 9	SE	6.9		-27.9	0.4	91	10	Str.		<sup>1</sup>
	Mn.	- 8	- 9	SE b E	6.0	58.9			92	10	Str.		*°
March 3.	2	84 8	26 8	SE	3.9				93	0	Str.		
	4	- 8	- 8	SE	4.8	59.7			93	10	Str.		
	6	- 8	- 7	SE	5.5				96	10	Str.		
	8.15	- 8	- 7	SE	4.4	61.2	-29.3	0.4	96	10	Str.		
	10	- 8	- 6	SE	4.0		-31.1	0.4	96	10	Cist.		
	Noon	- 8	- 6	E b S	3.5	62.1	-29.9	0.4	96	10	Cist.		
	2	- 8	- 5	SE	3.0		-29.7	0.4	96	10	Str.		
	4	- 8	- 5	SE	3.5	62.0	-29.1	0.4	96	10	Str.		
	6	- 8	- 4	SE	1.9		-28.9	0.4	96	10	Str.		
	8	- 8	- 4		0	61.7	-26.9	0.5	97	10	Str.		
	10	- 8	- 3	ENE	1.9		-26.3	0.6	98	10	Str.		*° <sup>2</sup>
	Mn.	- 8	- 3	ENE	1.8	60.7			99	10	Str.		*°
March 4.	2	84 8	26 2	ENE	1.8				98	10	Str.		*°
	4	- 8	- 2	ENE	1.4	60.3			99	10	Str.		*°
	6	- 9	- 2	NNE	1.9				99	10	Str.		*°
	8	- 9	- 1	NW	2.1	60.6	-27.6	0.5	97	9°	Cicu.	SSW	*°
	10	- 9	- 1	W	2.6		-31.7	0.3	95	0			<sup>3</sup>
	Noon	- 9	- 0	W	3.8	62.3	-34.9	0.2	93	0			
	2	- 9	- 0	NW b W	4.2		-36.0	0.2	94	0			
	4	- 9	25 59	W	4.1	64.7	-35.5	0.2	93	0			
	6	- 9	- 59	W b N	3.2		-37.7	0.2	92	0			
	8	- 9	- 57	W b N	3.0	66.8	-39.3	0.1	91	0			
	10	- 8	- 54	WNW	3.4		-40.3	0.1	91	0			
	Mn.	- 8	- 51	W b N	2.6	68.9			91	0			
March 5.	2	84 8	25 48	W	1.6				90	0			
	4	- 8	- 45	W	1.6	70.4			90	0			
	6	- 7	- 42	WNW	1.8				90	0			
	8	- 7	- 39	NW	2.0	71.4	-40.9	0.1	90	0			
	10	- 7	- 36	N	1.8		-41.5	0.1	89	0			
	Noon	- 7	- 33	NNE	1.8	72.4	-41.8	0.1	90	0			
	2	- 6	- 30	NE	2.0		-42.3	0.1	90	0			
	4	- 6	- 27	NE b E	2.2	73.3	-43.2	0.1	89	0			
	6	- 6	- 24	NE b E	3.0		-42.1	0.1	89	0			
	8	- 6	- 21	NE b E	2.2	73.2	-42.4	0.1	89	0			
	10	- 5	- 18	NE b E	3.0		-41.9	0.1	89	0			
	Mn.	- 5	- 15	NE b E	3.0	73.3			89	0			
March 6.	2	84 5	25 11	NE b E	3.8				89	0			
	4	- 5	- 8	NE b E	4.5	71.7			89	0			
	6	- 4	- 5	NE b E	6.9				92	1°	Cist.		
	8	- 4	- 2	NE b E	7.2	70.3	-35.4	0.2	91	10	Str.		*°
	10	- 4	24 59	NE b E	8.2		-32.4	0.3	94	10	Str.		*°
	Noon	- 4	- 56	NE	10.2	65.7	-29.7	0.4	96	10	Str.		*°

<sup>1</sup> 11 p. m. \*°. <sup>2</sup> — at various times during the day. <sup>3</sup> 11 p. m. The sun was seen above the horiz.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 6.	2	84° 3'	24° 53'	NE	10.7		-28.8	0.4	94	10	Str.		* <sup>2</sup>
	4	- 3	- 50	NE	11.4	761.0	-27.9	0.5	96	10	Str.		* <sup>2</sup>
	6	- 3	- 47	NE	11.0		-27.1	0.5	96	10	Str.		* <sup>2</sup>
	8	- 3	- 44	NE	9.0	57.0	-24.9	0.6	97	10	Str.		* <sup>2</sup>
	10	- 3	- 41	NE <sup>b</sup> N	6.8		-23.6	0.7	99	10	Str.		* <sup>2</sup>
	Mn.	- 2	- 38	NNE	7.8	54.3			98	10	Str.		* <sup>2</sup>
March 7.	2	83 2	24 35	NNE	6.6				99	10	Str.		* <sup>2</sup>
	4	- 2	- 32	N <sup>b</sup> E	6.0	54.2			99	10	Str.		
	6	- 2	- 29	N	6.3				99	10	Str.		
	8	- 1	- 26	NW <sup>b</sup> N	8.0	57.5	-24.9	0.5	99	10	Cust.	SW	* <sup>0</sup>
	10	- 1	- 23	NW <sup>b</sup> N	6.4		-26.9	0.5	87	0			
	Noon	- 1	- 20	NW <sup>b</sup> N	5.4	60.7	-28.4	0.4	87	0			
	2.15	- 1	- 16	NNW	5.5		-29.9	0.3	87	0			
	4	- 0	- 14	N <sup>b</sup> W	4.3	63.0	-31.4	0.3	86	0			
	6	- 0	- 11	N <sup>b</sup> W	3.6		-32.4	0.3	85	0			
	8	- 0	- 8	N <sup>b</sup> W	3.9	64.6	-32.6	0.2	84	3°	Ci.		1
	10	- 0	- 7	NE <sup>b</sup> N	5.1		-32.6	0.2	85	0			
	Mn.	- 0	- 6	NE <sup>b</sup> N	5.0	64.8			85	0			
March 8.	2	84 0	24 4	NE <sup>b</sup> N	5.2				86	4	Ci.		
	4	83 59	- 3	NE	8.2	62.5			86	10	Str.		
	6	- 59	- 2	NE	7.6				86	10	Str.		
	8	- 59	- 1	NE	6.9	59.0	-25.1	0.5	89	10	Str.		* <sup>2</sup>
	10	- 59	23 59	NE	6.7		-24.2	0.6	90	10	Str.		* <sup>2</sup>
	Noon	- 59	- 58	NE	5.8	56.9	-21.8	0.7	91	10	Str.		* <sup>2</sup>
	2	- 59	- 57	NE	4.7		-19.4	0.8	93	10	Str.		
	4	- 59	- 55	NE <sup>b</sup> E	3.8	55.2	-16.4	1.1	95	10	Str.		2
	6	- 59	- 54	SE	1.2		-13.9	1.5	99	10	Str.		
	8	- 58	- 53	SSE	2.4	55.8	- 8.7	2.3	99	10	Str.		III
	10	- 58	- 52	SSE	2.4		- 8.5	2.2	94	10	Str.		III
	Mn.	- 58	- 50	ESE	0.0	56.6			94	10	Str.		III
March 9.	2	83 58	23 49		0				99	10	Str.		III
	4	- 58	- 48		0	57.1	- 5.1	3.0	99	10	Str.		III
	6	- 58	- 46	SSE	3.6				100	10	Str.		* <sup>0</sup>
	8	- 58	- 45	SW <sup>b</sup> W	8.6	59.9	-12.0	1.7	96	8°	Cicu.	SSW	* <sup>0</sup>
	10	- 58	- 44	WSW	8.1		-17.6	1.0	89	10	Ci.		* <sup>2</sup>
	Noon	- 57	- 42	SW <sup>b</sup> W	5.1	65.5	-20.2	0.7	83	10°	Ci.		
	2	- 57	- 41	SW <sup>b</sup> W	5.3		-21.5	0.7	82	10°	Ci.	SW	
	4	- 57	- 40	SW <sup>b</sup> W	5.2	69.8	-23.8	0.5	81	10°	Ci.		
	6	- 57	- 39	WSW	3.8		-25.4	0.5	80	5°	Ci.		
	8	- 57	- 37	WSW	4.4	73.5	-24.9	0.5	80	9	Cist.	WSW	
	10	- 57	- 36	NW	5.9		-26.1	0.5	81	10°	Ci.	WNW&WSW	
	Mn.	- 57	- 35	NW <sup>b</sup> W	2.5	76.2			80	0			
March 10.	2	83 57	23 34		0				83	10°	Cist.		
	4	- 57	- 32		0	78.1			84	10	Str.		
	6	- 57	- 31	NE	2.2				84	10	Cist.		
	8	- 57	- 30	NE	3.1	79.0	-24.3	0.5	85	10°	Str.		
	10	- 57	- 28	NE <sup>b</sup> E	3.5		-23.9	0.5	84	10°	Ci.		
	Noon	- 57	- 27	NE <sup>b</sup> E	3.8	79.0	-23.9	0.5	86	4°	Ci. Cist.		3
	2	- 57	- 26	NE <sup>b</sup> E	5.6		-22.4	0.6	87	8°	Ci. Cicu.	ca.SSE	
	4	- 57	- 25	NE <sup>b</sup> E	6.8	77.8	-20.9	0.7	88	10	Cust.	SSE	
	6	- 57	- 23	NE <sup>b</sup> E	5.9		-19.3	0.8	90	10	Str.		
	8	- 57	- 22	ENE	7.4	76.1	-18.2	1.0	92	10	Str.		
	10	- 57	- 21	E <sup>b</sup> N	5.7		-17.2	1.1	95	10	Str.		* <sup>3</sup>
	Mn.	- 57	- 20	E <sup>b</sup> N	5.8	74.9			98	10	Str.		*

<sup>1</sup> Cirrus-belts converging towards WSW. <sup>2</sup> Between 4 and 6 p. m. the wind was variable, and while the vane at the mast-head showed SE, the wind blew the smoke from the chimney southwards. <sup>3</sup> 11 p. m. ci. came up from SSE converging towards ENE and WSW.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 11.	2	83° 57'	23° 18'	E <sup>b</sup> N	5.0				96	10	Str.		*°
	4	- 57	- 17	ENE	3.1	773.4			96	10	Str.		*°
	6	- 57	- 16	E <sup>b</sup> N	2.8				93	10	Str.		
	8	- 57	- 14	NE <sup>b</sup> E	3.9	72.3	-13.9	1.5	97	10	Str.		*°
	10	- 57	- 13	NE	3.8		-13.6	1.4	93	9	Cist.		
	Noon	- 57	- 12	NE <sup>b</sup> N	3.8	71.4	-16.4	1.1	91	9	Cicu.	SE	
	2	- 57	- 11	NE <sup>b</sup> N	4.2		-17.0	1.0	91	10	Ci. Cust.	ESE	
	4	- 57	- 9	NE <sup>b</sup> N	3.0	70.8	-15.6	1.2	91	10	Str.		≡
	6	- 57	- 8	NE <sup>b</sup> N	3.3		-14.5	1.3	93	10	Str.		
	8	- 57	- 7	NE <sup>b</sup> N	3.4	70.7	-14.4	1.3	93	10	Str.		1
	10	- 57	- 6	ENE	3.2		-14.8	1.3	94	10	Str.		≡
	Mn.	- 57	- 4	ENE	3.2	70.1			95	10	Str.		≡
March 12.	2	83 57	23 3	ENE	3.8				96	10	Str.		*
	4	- 57	- 2	ENE	4.6	70.1			99	10	Str.		
	6	- 57	- 1	E	4.0				100	10	Str.		
	8	- 57	22 59	SE <sup>b</sup> E	3.5	69.2	- 9.9	2.1	100	10	Cust.	S	2
	10	- 57	- 58	S	4.4		-11.0	1.8	91	10	Str.		≡
	Noon	- 57	- 57	SW	4.8	69.9	-11.9	1.6	91	10	Str.		≡
	2	- 57	- 55	SSW	4.2		-10.4	1.9	93	10	Str.		≡
	4	- 57	- 54	S	3.4	69.8	- 9.7	2.0	94	10	Str.		≡
	6	- 57	- 53	S <sup>b</sup> E	3.4		- 9.9	1.9	92	10	Cust.	SSW	
	8	- 57	- 52	S	3.0	68.5	-12.4	1.6	93	3	Ci. Cust.		
	10	- 57	- 52	S	3.7		-10.9	1.8	95	10	Ci. Cust.	SW	
	Mn.	- 57	- 54	SSE	5.4	66.8			97	10	Str.		
March 13.	2	83 58	22 56	S <sup>b</sup> E	4.8				93	10	Cust.	SW	
	4	- 58	- 59	S	5.0	65.5			93	9	Cist.		
	6	- 58	23 1	S	4.5				91	10°	Cist.	SW	
	8	- 58	- 3	S	4.5	63.8	-14.9	1.2	89	10°	Cicu.	S	
	10	- 58	- 5	S	6.8		-10.1	1.9	93	10	Str.		
	Noon	- 58	- 7	SSW	7.2	61.4	- 6.9	2.6	98	10	Str.		≡
	2	- 58	- 10	SW <sup>b</sup> W	7.3		- 6.3	2.7	97	10	Str.		≡
	4	- 58	- 12	SW	7.5	59.1	- 9.9	1.9	92	10	Str.		≡
	6	- 59	- 14	SW	4.5		- 9.8	1.8	89	10	Str.		≡
	8	- 59	- 16	SW <sup>b</sup> W	7.5	57.2	-10.4	1.7	87	10	Cust.	SW	*°
	10	- 59	- 18	W <sup>b</sup> S	6.1		-15.8	1.1	84	2°	Cicu.		
	Mn.	- 59	- 21	W <sup>b</sup> S	6.8	58.2			77	1°	Cicu.	SW	
March 14.	2	83 59	23 23	WSW	5.0				78	8	Ci. Cust.		
	4	- 59	- 25	W <sup>b</sup> S	3.4	59.2			80	10	Str.		
	6	- 59	- 27	W <sup>b</sup> S	2.6				79	10	Str.		
	8	- 59	- 29	SW <sup>b</sup> S	3.5	59.9	-22.8	0.5	78	10	Str.		
	10	84 0	- 32	SSW	2.8		-23.4	0.5	77	10	Cist.		
	Noon	- 0	- 34	SSW	2.4	59.1	-21.9	0.6	78	10	Ci. Cust.	SW	
	2	- 0	- 36	SE <sup>b</sup> S	4.0		-20.4	0.7	79	10	Str.		≡
	4	- 0	- 38	SSE	3.4	57.4	-17.6	0.9	80	10	Str.		
	6	- 0	- 40	S	2.8		-15.0	1.1	81	10	Str.		
	8	- 0	- 43	SW <sup>b</sup> S	5.0	56.7	-12.9	1.4	87	10	Str.		
	10	- 0	- 45	SW	5.5		-14.6	1.2	83	7°	Cicu.	SW	
	Mn.	- 0	- 47	SW	5.6	56.8			84	10	Str.		
March 15.	2	84 1	23 49	SW	4.4				83	10	Str.		
	4	- 1	- 51	SW	4.8	56.9			83	10	Str.		
	6	- 1	- 54	SW <sup>b</sup> S	4.5				89	10	Str.		
	8	- 1	- 56	SW	6.4	56.8	-10.9	1.7	87	10	Str.		
	10	- 1	- 58	SSW	4.2		- 9.9	1.9	91	10	Str.		≡
	Noon	- 1	24 0	SW <sup>b</sup> S	7.9	56.5	- 8.5	2.2	92	10	Cist.		
	2	- 1	- 2	SW <sup>b</sup> S	5.4		- 9.6	1.9	90	10	Ci. Cust.	SW	
	4	- 2	- 5	SW <sup>b</sup> S	5.5	56.3	- 8.6	2.1	91	10	Ci. Cust.	SW	

<sup>1</sup> Dark sky on the horiz. between NE and SE. <sup>2</sup> —<sup>2</sup> on the instruments in the screen.



1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 15.	6	84° 2'	24° 7'	SW <sup>b</sup> S	8.0		- 7.9	2.2	88	10	Cust.	SW	
	8	- 2	- 9	SW <sup>b</sup> S	7.4	756.0	- 6.9	2.2	82	10	Str.		
	10	- 2	- 11	SW <sup>b</sup> S	6.1		- 6.9	2.3	86	10	Str.		
	12.15	- 2	- 14	SSW	7.0	56.3			89	10	Str.		
March 16.	2	84 2	24 16	SSW	6.4				90	10°	Cist.	SW	
	4	- 2	- 18	SSW	6.9	56.0			90	10	Str.		
	6	- 2	- 20	SSW	6.0				89	10	Str.		*°
	8	- 3	- 22	S <sup>b</sup> W	7.0	55.7	- 6.9	2.4	88	10	Str.		*°
	10	- 3	- 24	SSW	7.6		- 7.6	2.2	87	10	Cust.	SW	*°
	Noon	- 3	- 27	S <sup>b</sup> W	6.5	55.7	- 9.6	1.9	86	10	Ci. Cust.	SW	
	2	- 3	- 29	S	6.8		- 10.7	1.7	85	10	Cicu.	SSW	
	4	- 3	- 31	S	7.2	55.5	- 12.1	1.5	87	10	Ci. Cust.	SSW	
	6	- 3	- 33	S	6.2		- 8.8	2.1	90	10	Str.		*°
	8	- 3	- 35	S	5.3	55.3	- 9.5	2.0	91	10	Ci. Cust.	S	
	10	- 3	- 38	S <sup>b</sup> E	6.0		- 8.2	2.2	93	10	Str.		☉*
	Mn.	- 4	- 40	S <sup>b</sup> E	6.2	54.9			93	10	Str.		
	2	84 4	24 42	SE <sup>b</sup> S	4.8				92	10	Str.		
	4	- 4	- 44	SE <sup>b</sup> S	4.4	54.4			91	10	Str.		
March 17.	6	- 4	- 46	S <sup>b</sup> E	5.0				92	10	Str.		*°
	8	- 4	- 49	SE <sup>b</sup> E	3.0	54.3	- 12.6	1.5	88	10	Str.		*°
	10	- 4	- 51	ESE	3.2		- 12.5	1.9	90	10	Str.		*°
	Noon	- 4	- 53	E	1.8	53.6	- 11.9	1.6	90	10	Str.		
	2	- 4	- 55	SE <sup>b</sup> S	4.5		- 12.9	1.4	89	10	Str.		*°
	4	- 5	- 57	S	3.4	53.2	- 13.9	1.3	88	10	Str.		[ <sup>2</sup>
	6	- 5	25 0	S	1.5		- 15.1	1.2	87	10	Cist.		[ <sup>2</sup>
	8	- 5	- 2	ESE	0.0	53.2	- 16.3	1.2	86	10	Cist.		*°
	10	- 5	- 5	SE	2.7		- 17.9	0.9	86	9°	Ci. Cust.		
	Mn.	- 6	- 4	SE	2.6	53.4			85	10°	Cist.		*°
	2	84 7	25 3	SE	2.0				84	10°	Cist.		[
	4	- 8	- 1	SE	2.2	54.2			84	10°	Ci.		*°
	6	- 9	- 0	SE	1.4				83	10°	Ci.		*°
	8	- 10	24 59	SE <sup>b</sup> E	2.6	55.2	- 21.1	0.7	83	10°	Ci. Cust.		*°
March 18.	10	- 11	- 58	SE <sup>b</sup> E	0.0		- 19.9	0.7	82	10	Str.		*°
	Noon	- 12	- 57	S <sup>b</sup> W	0.0	56.2	- 19.3	0.7	83	3°	Ci.		[
	2	- 12	- 56	ESE	0.0		- 19.4	0.8	83	0			[ <sup>2</sup>
	4	- 12	- 55	S	1.4	57.2	- 21.9	0.7	82	10	Ci. Cust.		*°
	6	- 12	- 54	S	0.0		- 21.7	0.6	80	10	Cist.		*° <sup>3</sup>
	8	- 12	- 53	S	1.5	58.1	- 23.1	0.6	84	10	Cust.	NW	
	10	- 11	- 52	SSE	2.0		- 20.9	0.7	80	10	Ci. Cust.	WSW&WNW	*°
	Mn.	- 11	- 51	SE	1.9	58.8			80	10	Ci. Cust.		*°
	2	84 11	24 50	SE <sup>b</sup> S	2.2				80	10°	Cist.		
	4	- 11	- 49	SSE	2.0	59.7			81	10	Str.		
	6	- 11	- 48		0				81	10	Str.		
	8	- 11	- 46	SSW	1.4	60.5	- 19.0	0.8	82	10	Ci. Cust.	SSW	
	10	- 10	- 45	SSW	0.0		- 18.4	0.9	82	10	Ci. Cust.	SW	*°
	Noon	- 10	- 44	E	1.4	61.5	- 18.1	0.9	83	10	Str.		*° <sup>4</sup>
March 19.	2	- 10	- 43	S	3.5		- 16.4	1.0	84	10	Str.		
	4	- 10	- 42	S	4.8	61.8	- 18.9	0.8	82	10	Str.		*°
	6	- 10	- 41	SE	4.1		- 20.6	0.7	82	10	Str.		
	8	- 9	- 40	SSE	4.0	61.3	- 20.4	0.7	81	10	Str.		
	10	- 9	- 39	S <sup>b</sup> E	4.9		- 19.5	0.8	82	10	Str.		*°
	Mn.	- 9	- 38	SSW	2.4	61.3			82	10	Str.		

<sup>1</sup> 9.30 a. m. ☉. <sup>2</sup> A few ci. on the western horiz. <sup>3</sup> Moved the screen on the ice to a place 2 points on the starboard-bow, 60 paces off. Cleaned the instruments from snow. <sup>4</sup> The sun-sail stretched in front of the screen.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 20.	2	84° 9'	24° 37'	SSW	1·5				81	10	Cust.		
	4	- 9	- 36	S	2·0	761·7			82	10	Str.		
	6	- 9	- 35	E <sup>b</sup> S	3·0				84	10	Ci.		
	8	- 8	- 34	E <sup>b</sup> S	4·5	60·9	-19·9	0·7	83	10	Str.		*°
	10	- 8	- 33	E <sup>b</sup> S	4·2		-19·1	0·8	83	10	Str.		*°
	Noon	- 8	- 31	E <sup>b</sup> S	5·5	60·4	-17·2	0·8	85	10	Str.		*°
	2	- 8	- 30	ESE	4·7		-17·0	1·0	85	10	Str.		*°
	4	- 8	- 29	SE <sup>b</sup> E	5·4	59·7	-16·4	1·0	86	10	Cust.	SW	*°
	6	- 7	- 28	SE <sup>b</sup> E	4·2		-16·3	1·0	86	10	Str.		*°
	8	- 7	- 27	SE <sup>b</sup> S	4·8	59·0	-15·9	1·1	86	10	Str.		
	10	- 7	- 26	SE <sup>b</sup> S	4·8		-15·9	1·1	86	10	Str.		
	Mn.	- 7	- 25	SE <sup>b</sup> S	4·3	59·0			86	10	Str.		*°
March 21.	2	84 7	24 24	SE <sup>b</sup> S	3·8				89	10	Str.		
	4	- 7	- 23	SE	2·2	58·9			85	10	Str.		
	6	- 6	- 22	SE	2·4				84	10°	Cist.		
	8	- 6	- 21	ESE	4·1	58·5	-17·5	0·9	85	10	Ci. Cust.	SSW	
	10	- 6	- 20	ESE	3·2		-21·5	0·7	82	10	Ci. Cust.	SW	
	Noon	- 6	- 19	ESE	3·4	58·0	-15·6	1·1	85	10	Str.		
	2	- 6	- 17	ESE	4·7		-14·0	1·3	87	10	Str.		
	4	- 5	- 16	SSE	4·4	57·3	-15·1	1·2	86	10	Str.		
	6	- 5	- 15	S <sup>b</sup> E	3·5		-15·9	1·1	85	10	Ci. Cust.	S	
	8	- 5	- 14	S <sup>b</sup> E	5·4	56·3	-17·1	1·0	85	10°	Cist.		
	10	- 5	- 13	S <sup>b</sup> E	3·9		-16·3	1·0	87	10	Str.		*°
	Mn.	- 5	- 12	SSE	4·3	55·4			84	10°	Cist.		
March 22.	2	84 5	24 11	SSE	5·8				89	10	Str.		
	4	- 5	- 10	S <sup>b</sup> E	6·5	54·6			88	10	Ci. Cust.		
	6	- 5	- 10	SSE	7·0				88	10	Str.		*°
	8	- 5	- 9	SW	4·4	53·8	-16·9	1·0	86	10	Str.		
	10	- 5	- 8	SW <sup>b</sup> W	3·2		-19·9	0·8	84	10	Str.		
	Noon	- 5	- 7	WSW	2·9	54·9	-20·9	0·7	83	10	Str.		
	2	- 6	- 6	SW <sup>b</sup> W	3·7		-22·1	0·6	82	10	Str.		
	4.15	- 6	- 5	SW	2·8	55·3	-23·5	0·6	81	10	Str.		
	6	- 6	- 5	S <sup>b</sup> W	3·3		-23·8	0·5	81	10	Str.		
	8	- 6	- 4	SSE	2·2	55·1	-25·3	0·5	80	10°	Str.		
	10	- 6	- 3	SSE	3·0		-26·1	0·5	80	10	Str.		
	Mn.	- 6	- 2	SE <sup>b</sup> E	3·5	54·3			81	10	Str.		
March 23.	2	84 6	24 1	ESE	5·4				82	10	Str.		
	4	- 6	- 0	SE	4·8	53·2			83	10	Str.		
	6	- 6	23 59	SSE	7·0				88	10	Str.		*°
	8	- 6	- 59	S	8·6	52·0	-13·0	1·4	90	10	Ci. Cust.		*°
	10	- 7	- 58	S	9·1		-13·9	1·3	88	10	Ci. Cust.		*°
	Noon	- 7	- 57	S <sup>b</sup> W	7·8	52·3	-14·7	1·2	88	10	Str.		
	2	- 7	- 56	S	6·5		-13·8	1·3	88	10	Str.		*°
	4	- 7	- 55	SSE	6·9	51·8	-16·3	1·0	86	10	Str.		*°
	6	- 7	- 54	SE <sup>b</sup> S	8·2		-18·7	0·8	83	10	Ci. Cust.	SE	*°
	8	- 7	- 53	SE <sup>b</sup> S	7·8	50·3	-20·3	0·7	81	10	Ci. Cust.	SE	*°
	10	- 7	- 53	SE <sup>b</sup> E	7·3		-21·5	0·6	80	10	Cist.		*°
	Mn.	- 7	- 52	SE <sup>b</sup> E	5·0	48·8			82	10	Cist.		
March 24.	2	84 7	23 51	SE <sup>b</sup> E	5·3				82	10	Str.		*≡
	4	- 8	- 50	SE <sup>b</sup> E		46·9			82	10	Str.		*°
	6	- 8	- 49	SSE	1·4				81	8	Ci. Cust.		
	8	- 8	- 48	SSW	2·0	46·7	-23·8	0·5	80	10	Ci. Cust.	WSW	*°
	10	- 8	- 47	SW <sup>b</sup> S	2·4		-19·3	0·7	80	10	Str.		
	Noon	- 8	- 47	WSW	3·2	47·7	-18·0	0·8	80	10	Str.		
	2	- 8	- 46	W <sup>b</sup> S	1·8		-19·1	0·8	81	10	Str.		*°
	4	- 8	- 45	ESE	1·8	48·6	-19·1	0·8	82	10	Str.		
	6	- 8	- 44	S	4·2		-18·7	0·8	82	10	Str.		
	8	- 8	- 43	S	4·2	49·6	-23·1	0·5	79	10	Str.		
	10	- 9	- 42	S	3·4		-29·7	0·3	77	10°	Cist.		⌈°
	Mn.	- 9	- 43	S	4·1	50·7			76	10°	Cist.		

1896. Day.	H l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 25.	2	84° 9'	23° 44'	SSE	3.8				76	10°	Cist.		
	4	- 9	- 46	SSE	3.2	75.1.8			76				
	6	- 9	- 47	SSE	4.8				77	10°	Str.		
	8	- 9	- 48	SbW	4.1	53.5	-21.7	0.6	81	10	Str.		≡
	10	- 9	- 50	SbE	4.0		-19.1	0.8	82	10	Str.		≡
	Noon	- 9	- 51	SbE	5.0	54.2	-17.9	0.9	83	10	Str.		≡
	2	- 10	- 52	SEbS	5.3		-17.2	1.0	83	10	Str.		* * <sup>2</sup>
	4	- 10	- 54	SbW	7.7	54.5	-14.3	1.2	85	10	Ci. Cust.	SW	≡
	6	- 10	- 55	SSW	6.0		-13.7	1.3	86	10	Str.		≡
	8	- 10	- 57	SbW	4.6	55.8	-13.9	1.3	86	10	Str.		* *
	10	- 10	- 58	SbW	5.0		-13.9	1.3	87	10	Str.		* *
	Mn.	- 10	- 59	SbW	4.4	57.3			87	10	Cust.	SW	*
March 26.	2	84 10	24 1	SbW	5.0				85	10	Str.	SW	
	4	- 10	- 2	SbW	5.8	57.7			85	10	Str.		* <sup>0</sup>
	6	- 11	- 3	SbW	5.0				86	10°	Cist.		
	8	- 11	- 5	S	7.2	57.8	-11.0	1.7	85	10	Ci. Cust.	WSW	
	10	- 11	- 6	S	7.2		-12.3	1.4	81	10	Str.		
	Noon	- 11	- 8	S	7.6	57.8	-11.1	1.6	82	10	Str.		
	2	- 11	- 9	S	8.1		-11.3	1.5	78	10	Str.		
	4.15	- 11	- 10	S	7.7	57.6	-11.2	1.5	80	10	Str.		* <sup>0</sup>
	6	- 11	- 12	SSW	8.3		-10.5	1.7	87	10	Str.		* <sup>2</sup>
	8	- 11	- 13	SSW	8.4	56.8	- 8.9	2.1	91	10	Str.		* *
	10	- 12	- 14	SSW	6.8		- 7.1	2.4	92	10	Str.		*
	Mn.	- 12	- 16	SSW	8.6	56.7			92	10	Str.		
March 27.	2	84 12	24 17	SSW	7.6				96	10	Str.		*
	4	- 12	- 19	SSW	7.5	56.8			97	10	Str.		
	6	- 12	- 20	SSW	6.6				96	10	Str.		
	8	- 12	- 21	SSW	9.0	56.4	- 5.1	2.9	94	10	Str.		* <sup>0</sup> Δp <sup>1</sup>
	10	- 12	- 23	SSW	9.0		- 5.2	2.8	94	10	Str.		* <sup>0</sup>
	Noon	- 12	- 24	SSW	7.9	56.7	- 5.1	2.9	93	10	Str.		* <sup>0</sup>
	2	- 13	- 25	SWbS	8.6		- 4.3	3.1	95	10	Str.		* <sup>0</sup>
	4	- 13	- 27	SWbS	9.3	56.7	- 3.7	3.3	96	10	Str.		* <sup>0</sup>
	6	- 13	- 28	SWbS	9.0		- 3.2	3.4	95	10	Str.		
	8	- 13	- 30	SW	8.4	57.6	- 4.0	3.2	94	10	Str.		
	10	- 13	- 31	SWbS	6.2		- 7.3	2.3	89	6	Ci. Cust.	SW	* <sup>0</sup>
	Mn.	- 13	- 30	SSW	7.0	58.9			88	10	Str.		
March 28.	2	84 13	24 27	SW	6.2				89	10	Str.		
	4	- 13	- 25	SWbS	4.8	60.0			87	10	Str.		
	6	- 13	- 22	SW	4.4				87	10	Str.		* <sup>0</sup>
	8	- 13	- 20	SWbS	3.9	62.1	- 6.5	2.5	91	10	Str.		* <sup>0</sup> 2
	10	- 13	- 17	NNE	3.8		- 9.8	1.8	85	10	Str.		* <sup>3</sup>
	Noon	- 14	- 15	NNE	6.6	64.7	-13.7	1.2	81	10	Str.		
	2	- 14	- 12	NEbN	5.0		-15.6	1.1	81	10	Str.		*
	4	- 14	- 10	NEbN	5.2	66.9	-15.9	1.0	80	10	Str.		
	6	- 14	- 7	NEbN	5.6		-16.6	1.0	80	10	Str.		
	8	- 14	- 5	NE	6.1	68.2	-17.0	0.9	74	10	Str.		
	10	- 14	- 2	NE	4.0		-17.6	0.9	81	10	Str.		*
	Mn.	- 14	- 0	NE	5.1	69.0	-18.0		80	10	Str.		
March 29.	2	84 14	23 57	NE	6.3				81	10	Str.		
	4	- 14	- 55	NEbE	6.0	68.3	-17.1	0.9	81	10	Str.		
	6	- 14	- 52	NEbE	5.5				83	10	Cist.		
	8	- 14	- 50	ENE	5.2	67.4	-13.9	1.3	85	10	Str.		
	10	- 14	- 47	E	5.9		-12.9	1.3	86	10	Str.		
	Noon	- 14	- 45	SEbE	2.7	66.4	-12.0	1.5	86	10	Ci. Cust.	SSW	
	2	- 14	- 42	S	3.2		-13.0	1.4	86	10	Str.		
	4	- 14	- 39	S	3.8	65.4	-13.0	1.4	86	10	Cust.	W	* <sup>0</sup>

<sup>1</sup> The hail-stones small and not much developed. <sup>2</sup> Fine-grained snow. <sup>3</sup> 9.30 a. m. the wind suddenly went round to N. <sup>4</sup> 11 a. m. Ci. Cust.; in W a lower stratum of clouds.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
March 29.	6	84° 14'	23° 36'	S <sup>b</sup> E	6.1		-10.8	1.7	88	10	Str.		*°
	8	- 15	- 34	S <sup>b</sup> W	6.2	763.5	- 7.7	2.2	87	10	Str.		*°
	10	- 15	- 31	SSW	6.8		- 6.6	2.5	93	10	Str.		*°
	Mn.	- 15	- 28	S <sup>b</sup> W	6.5	62.5			95	10	Str.		
March 30.	2	84 15	23 26	S <sup>b</sup> E	6.8				95	10	Str.		
	4	- 15	- 23	S <sup>b</sup> W	6.0	61.4			90	10°	Cust.		
	6	- 15	- 20	S <sup>b</sup> E	7.0				90	10	Str.		
	8	- 15	- 17	S	6.6	60.2	- 7.2	2.3	89	10	Str.		
	10	- 15	- 15	S	7.0		- 6.3	2.5	89	10	Str.		*°
	Noon	- 15	- 12	S	5.2	60.0	- 7.1	2.3	90	10°	Cist.		
	2	- 15	- 9	S	5.4		- 6.1	2.6	90	10	Str.		*°
	4	- 15	- 7	S	5.3	59.3	- 6.1	2.6	89	10	Cust.	SW	*°
	6	- 15	- 4	S	6.8		- 6.0	2.6	90	10	Str.		*°
	8	- 15	- 1	S	6.8	58.6	- 6.2	2.5	91	10	Ci. Cust.		
	10	- 15	22 59	S <sup>b</sup> W	5.9		- 7.1	2.3	91	8°	Cicu.	SW	
	Mn.	- 16	- 58	S <sup>b</sup> W	4.8	59.5			91	10	Str.		
March 31.	2	84 16	22 57	S <sup>b</sup> W	5.2				88	10	Str.		
	4	- 17	- 57	S <sup>b</sup> E	6.2	57.7			89	0			
	6	- 17	- 57	S	6.8				88	10	Str.		
	8	- 18	- 57	S <sup>b</sup> W	6.5	57.8	- 6.8	2.3	85	10	Str.		*°
	10	- 18	- 56	S <sup>b</sup> W	6.4		- 6.4	2.3	85	10	Cust.	SSW	
	Noon	- 19	- 56	S	5.3	57.7	- 8.4	2.0	84	7°	Cicu.	SW	
	2	- 19	- 56	S <sup>b</sup> E	4.7		- 9.2	1.9	85	7°	Cicu.	SSW	
	4	- 19	- 56	S <sup>b</sup> E	4.3	57.6	-10.3	1.6	81	1°	Cicu.		
	6	- 19	- 55	S <sup>b</sup> E	3.4		-13.2	1.3	82	0			
	8	- 19	- 55	SSE	3.3	57.0	-15.9	1.2	88	0			
	10	- 19	- 55	S <sup>b</sup> E	3.2		-17.5	1.0	89	8°	Ci.		
	Mn.	- 19	- 54	S	1.8	57.0			88	10	Str.		
April 1.	2	84 19	22 54	SSE	3.5				86	10	Cicu.		
	4	- 20	- 54	SE	3.0	57.1			87	10	Str.		*° <sup>2</sup>
	6	- 20	- 54	SE <sup>b</sup> E	2.8				90	10	Str.		*°
	8	- 20	- 53	SSE	5.7	56.6	- 6.5	2.5	89	10	Str.		*°
	10	- 20	- 53	SSE	6.9		- 6.5	2.4	87	10	Str.		*°
	Noon	- 20	- 53	SSE	6.0	57.0	- 7.0	2.3	87	10	Str.		*°
	2	- 20	- 52	SE <sup>b</sup> S	5.4		- 7.8	2.2	88	10	Ci. Cust.	SSE	*°
	4	- 20	- 52	SE <sup>b</sup> S	5.0	56.9	- 9.0	2.4	88	10	Str.		*°
	6	- 21	- 52	SE <sup>b</sup> E	5.0		- 9.3	1.9	86	10	Str.		*°
	8	- 21	- 52	SE <sup>b</sup> E	5.6	56.6	- 9.8	1.8	86	10	Str.		*
	10	- 21	- 51	SE <sup>b</sup> E	5.7		-10.2	1.8	86	10	Str.		*
	Mn.	- 21	- 51	ESE	6.8	56.1			87	10	Str.		*
April 2.	2	84 21	22 51	SE <sup>b</sup> E	5.7				89	10	Str.		*
	4	- 21	- 50	SE <sup>b</sup> E	5.4	55.3			90	10	Str.		*
	6	- 21	- 50	SE <sup>b</sup> E	5.0				90	10	Str.		*
	8	- 21	- 50	SE <sup>b</sup> E	6.2	54.6	- 6.2	2.5	91	10	Str.		*
	10	- 22	- 50	SE <sup>b</sup> E	7.2		- 5.5	2.7	91	10	Str.		
	Noon	- 22	- 49	SE	7.2	54.5	- 5.1	2.8	91	10	Str.		
	2	- 22	- 49	SE	5.3		- 4.3	3.1	94	10	Str.		
	4	- 22	- 49	SE	5.2	54.6	- 4.0	3.2	95	10	Str.		
	6	- 22	- 48	SE <sup>b</sup> S	4.5		- 3.7	3.3	95	10	Str.		
	8	- 22	- 48	SE <sup>b</sup> E	6.0	54.3	- 4.6	3.0	92	10	Str.		*°
	10	- 22	- 48	SE <sup>b</sup> E	5.8		- 5.0	2.9	92	10	Str.		*°
	Mn.	- 22	- 48	ESE	7.0	53.0			94	10	Str.		*° <sup>2</sup>
April 3.	2	84 23	22 47	SSE	9.8				93	10	Str.		*° <sup>2</sup>
	4	- 23	- 47	S	8.5	53.3			92	10	Cist.		*° <sup>2</sup>
	6	- 23	- 47	SSE	5.0				87	4	Ci. Cust.		
	8	- 23	- 46	S	3.8	54.8	-11.1	1.6	87	9	Cust.	S	

<sup>1</sup> A few ci. <sup>2</sup> Snowflakes fall at intervals of some minutes.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 3.	10	84° 23'	22° 46'	SSW	2.2		- 9.4	1.9	87	10	Str.		* * *
	Noon	- 23	- 46	ENE	2.0	756.2	- 9.4	1.9	86	10	Cist.		
	2	- 23	- 46	NE <sup>b</sup> E	3.5		- 9.1	2.0	87	10	Str.		
	4	- 23	- 45	NE <sup>b</sup> E	3.2	56.3	- 8.6	2.1	90	10	Str.		
	6	- 24	- 45	E	2.4		- 7.6	2.3	91	10	Str.		
	8	- 24	- 45	E <sup>b</sup> S	2.1	56.6	- 7.5	2.3	91	10	Str.		
	10	- 24	- 45	SE <sup>b</sup> E	2.2		- 7.8	2.3	92	10	Str.		
	Mn.	- 24	- 44	SE	1.8	57.7			94	10	Str.		
April 4.	2	84 24	22 44		0				94	10	Str.		≡ ≡ ≡ <sup>2</sup> ≡ <sup>2</sup> ≡ <sup>2</sup> ≡ <sup>2</sup> ≡ <sup>2</sup> ≡ <sup>2</sup> ≡ <sup>2</sup> ≡ <sup>2</sup> ≡ <sup>2</sup> ≡ <sup>2</sup>
	4	- 24	- 44	SW <sup>b</sup> S	1.5	58.8			95	10°	Str.		
	6	- 24	- 43	SSW	0.0				90	10			
	8	- 24	- 43	SW	2.3	60.1	-11.9	1.6	90	10	Cist.		
	10	- 25	- 43	WSW	2.1		-13.2	1.4	88	10	Cist.		
	Noon	- 25	- 43	SW	1.8	61.9	-14.5	1.3	88	10	Cist.		
	2	- 25	- 42	S	1.4		-13.1	1.4	89	10	Str.		
	4	- 25	- 42	SW	0.0	62.6	-15.2	1.2	86	10	Cist.		
	6	- 25	- 37	NE	0.0		-17.7	0.9	86	10	Cist.		
	8	- 25	- 32	NE	0.0	63.5	-18.6	0.8	84	10	Cist.		
	10	- 25	- 27	NE	1.6		-18.3	0.9	84	10°	Cist.		
	Mn.	- 26	- 21	NE <sup>b</sup> N	2.2	64.1				10°	Cist.		
April 5.	2	84 26	22 16	NE <sup>b</sup> N	2.4				81	0			*° *° *° *° *° *° *° *° *° *° *° *°
	4	- 26	- 11	NNE	3.5	63.7			83	10	Str.		
	6	- 26	- 6	NE	3.8				88	10	Str.		
	8	- 26	- 0	NE	4.3	63.0	-11.6	1.6	90	8°	Cicu.Cist.	SaSSE	
	10	- 26	21 55	NE <sup>b</sup> N	3.6		-10.4	1.8	91	10	Str.		
	Noon	- 26	- 50	NE <sup>b</sup> N	2.8	62.9	- 9.1	2.0	92	10	Str.		
	2	- 26	- 45	NE <sup>b</sup> E	2.1		- 7.1	2.4	92	10	Str.		
	4	- 27	- 39	SE	3.7	62.6	- 6.2	2.6	93	10	Str.		
	6	- 27	- 34	SE <sup>b</sup> E	4.0		- 6.8	2.5	91	10	Str.		
	8	- 27	- 29	SE	3.0	62.2	- 7.2	2.3	91	10	Str.		
	10	- 27	- 24	SE <sup>b</sup> E	2.2		- 7.9	2.3	92	10	Str.		
	Mn.	- 27	- 18	SE <sup>b</sup> E	2.3	62.2			91	10	Str.		
April 6.	2	84 27	21 13	SE <sup>b</sup> E	2.8				91	10	Str.		*° *° *° *° *° *° *° *° *° *° *° *°
	4	- 27	- 8	SE <sup>b</sup> E	2.8	61.9			91	10	Str.		
	6	- 28	- 3	SE <sup>b</sup> E	3.2				90	10	Str.		
	8	- 28	20 58	E	3.1	61.4	- 8.5	2.2	90	10	Str.		
	10	- 28	- 52	E <sup>b</sup> S	4.1		- 7.5	2.3	88	10	Str.		
	Noon	- 28	- 47	E	3.2	61.4	- 7.5	2.1	84	10	Str.		
	2	- 28	- 41	E <sup>b</sup> N	4.6		- 7.7	2.1	83	10	Str.		
	4	- 28	- 36	E	4.1	60.6	- 7.8	2.1	82	10	Str.		
	6	- 28	- 31	SE <sup>b</sup> E	5.4		- 8.3	2.0	81	10	Str.		
	8	- 28	- 26	ENE	6.9	59.9	- 8.8	1.9	82	10	Str.		
	10	- 29	- 20	ENE	5.0		- 8.8	2.0	89	10	Str.		
	Mn.	- 29	- 15	E <sup>b</sup> N	5.6	59.2			88	10	Str.		
April 7.	2	84 29	20 10	ENE	6.0				86	10	Str.		* <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup> * <sup>2</sup>
	4	- 29	- 5	ENE	7.8	57.7			87	10	Str.		
	6	- 29	19 59	ENE	6.3				83	10	Str.		
	8	- 29	- 54	ENE	7.0	55.8	-11.0	1.6	84	10	Str.		
	10	- 29	- 49	ENE	7.7		-11.0	1.6	82	10	Str.		
	Noon	- 30	- 44	ENE	8.0	54.2	-12.2	1.4	81	10	Ci. Cust.	SE	
	2	- 30	- 44	ENE	6.7		-12.1	1.4	82	10	Str.		
	4	- 30	- 43	ENE	9.8	52.6	-11.6	1.5	82	10	Str.		
	6	- 30	- 43	E	10.8		-10.7	1.6	84	10	Str.		
	8	- 30	- 43	E	9.5	51.8	-10.4	1.7	86	10	Str.		
	10	- 30	- 42	E <sup>b</sup> N	7.2		-10.4	1.7	86	10	Str.		
	Mn.	- 30	- 42	E <sup>b</sup> N	7.9	51.7			85	10	Str.		

1 — unusually thick to day.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 8.	2	84° 30'	19° 42'	E b N	8.0				86	10	Str.		
	4	- 30	- 41	E b N	7.0	750.9			84	10	Str.		
	6	- 30	- 41	E b N	7.3				84	10	Str.		
	8	- 30	- 41	ENE	8.0	50.3	-11.0	1.7	85	10	Str.		
	10	- 30	- 41	ENE	7.6		-12.1	1.5	84	10	Ci. Cust.	SE	
	Noon	- 30	- 41	ENE	7.8	50.4	-12.0	1.4	83	10	Str.		* <sup>2</sup>
	2	- 30	- 37	NE b E	8.6		-12.1	1.4	81	10	Str.		* <sup>2 1</sup>
	4	- 29	- 33	NE b E	9.4	50.3	-11.7	1.5	82	10	Str.		* <sup>2</sup>
	6	- 29	- 28	ENE	8.5		-10.9	1.6	84	10	Str.		* <sup>2</sup>
	8	- 29	- 24	ENE	7.8	50.6	-10.7	1.6	84	10	Str.		
	10	- 29	- 19	ENE	7.8		-11.4	1.6	85	10	Ci. Cist.		
	Mn.	- 29	- 15	ENE	6.8	51.7			85	10	Str.		
April 9.	2	84 28	19 11	ENE	6.1				88	10	Str.		
	4	- 28	- 6	ENE	5.0	52.7			89	10	Str.		
	6	- 28	- 2	ENE	4.8				91	10	Str.		
	8	- 28	18 57	ENE	6.3	53.5	- 9.5	1.9	89	10	Str.		
	10	- 28	- 53	ENE	6.0		- 9.3	1.9	88	10	Str.		
	Noon	- 27	- 48	NE b E	6.4	54.3	-10.6	1.7	87	10	Str.		
	2	- 27	- 44	NE	5.6		-11.6	1.5	85	10	Str.		* <sup>0</sup>
	4	- 27	- 40	NE b N	6.8	54.5	-13.0	1.3	81	10	Str.		* <sup>0</sup>
	6	- 27	- 35	NE b N	6.7		-14.1	1.2	81	10	Str.		* <sup>0</sup>
	8	- 26	- 31	NE b N	6.0	54.3	-14.9	1.1	80	10	Cicu. Str.		* <sup>0</sup>
	10	- 26	- 26	NE b N	4.7		-15.6	1.1	80	9°	Ci. Cist.	NNE	* <sup>0</sup>
	Mn.	- 26	- 22	NE b N	4.0	54.4			80	8	Ci. Cust.	NNE	* <sup>0</sup>
April 10.	2	84 26	18 17	NE b N	5.0				80	10	Str.		
	4	- 26	- 13	NE b N	4.5	54.2			80	10	Str.		
	6	- 25	- 9	NE b N	5.0				79	10	Str.		* <sup>0</sup>
	8	- 25	- 4	NNE	5.0	53.8	-14.9	1.1	80	10	Str.		
	10	- 25	- 0	NNE	5.2		-14.7	1.1	80	10	Str.		* <sup>0</sup>
	Noon	- 25	17 55	N b E	6.4	53.8	-14.6	1.2	81	10	Str.		* <sup>0</sup>
	2	- 25	- 51	NNE	3.6		-14.4	1.2	81	10	Str.		* <sup>0</sup>
	4	- 24	- 47	N b E	5.0	53.4	-14.2	1.2	83	10	Str.		* <sup>0</sup>
	6	- 24	- 42	N b E	7.8		-14.2	1.2	85	10	Cust.	NNE	* <sup>0</sup>
	8	- 24	- 38	N b E	6.8	53.1	-14.0	1.3	86	10	Str.		* <sup>0</sup>
	10	- 24	- 33	N b E	5.8		-13.2	1.4	86	10	Str.		* <sup>0</sup>
	Mn.	- 24	- 29	N b E	6.1	53.6			85	10	Str.		*
April 11.	2	84 23	17 24	N b E	6.6				87	10	Str.		* <sup>0</sup>
	4	- 23	- 20	N b E	7.2	53.6			88	10	Str.		* <sup>2</sup>
	6	- 23	- 16	N b E	6.5				89		Str.		* <sup>2</sup>
	8	- 23	- 11	N	6.0	55.0	-17.1	1.0	82	6	Ci. Cist.	NE	
	10	- 23	- 7	N	8.6		-17.7	0.9	80	10	Cust.	NE	* <sup>2</sup>
	Noon	- 22	- 4	N	7.2	56.0	-18.5	0.8	80	10	Cust.		* <sup>2</sup>
	2	- 22	- 2	N	6.6		-19.4	0.7	77	10°	Cicu.	NNW & N	* <sup>2</sup>
	4	- 22	- 0	N	8.2	57.2	-20.5	0.7	77	10°	Cicu.	NNE	* <sup>2</sup>
	6	- 22	16 59	N	8.6		-21.1	0.6	75	10	Cust.		* <sup>2</sup>
	8	- 21	- 58	N	8.2	58.2	-22.3	0.6	74	10	Str.		* <sup>2</sup>
	10	- 21	- 58	N b W	7.4		-24.0	0.5	73	10	Cist.		* <sup>2</sup>
	Mn.	- 20	- 57	NNW	6.2	60.0			72	10°	Cist.		* <sup>2</sup>
April 12.	2	84 19	16 56	N b W	6.4				72	0			
	4	- 19	- 55	N b W	6.2	61.2			72	0			
	6	- 18	- 54	NNW	6.2				71	0			
	8	- 18	- 53	NNW	5.0	62.6	-30.4	0.3	71	0			
	10	- 17	- 53	NNW	5.2		-30.0	0.3	72	0			
	Noon	- 17	- 52	NNW	4.6	63.6	-29.7	0.3	71	0			
	2	- 16	- 51	NW b N	4.6		-29.4	0.3	68	0			
	4	- 16	- 50	NW	4.6	64.6	-29.6	0.3	67	0			

<sup>1</sup> Driving snow from the ground.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 12.	6	84° 15'	16° 49'	NW	5.8		-30.2	0.3	67	0			
	8	- 15	- 49	NW	4.4	765.2	-31.2	0.2	68	0			
	10	- 14	- 48	NW <sup>b</sup> W	4.7		-32.5	0.2	69	0			
	Mn.	- 14	- 47	NW <sup>b</sup> W	5.9	66.1	-33.0	0.2	69	0			
April 13.	2	84 13	16 46	WNW	3.4		-33.7	0.2	70	0			
	4	- 13	- 45	WNW	5.1	66.3	-33.8	0.2	71	0			
	6	- 12	- 45	WNW	4.0		-33.3	0.2	70	0			
	8	- 12	- 44	W <sup>b</sup> S	3.2	66.0	-32.4	0.2	70	0			
	10	- 12	- 44	WSW	4.0		-31.3	0.2	69	0			
	Noon	- 12	- 44	SW	4.2	65.6	-29.7	0.3	70	5°	Cicu.		
	2	- 12	- 42	WSW	3.2		-27.9	0.3	70	10°	Cicu.	NW	
	4	- 11	- 40	WSW	3.7	65.4	-25.3	0.1	71	10	Str.		
	6	- 11	- 38	W	2.8		-25.4	0.4	71	3	Ci. Cust.	N	
	8	- 11	- 36	W <sup>b</sup> N	3.0	64.9	-25.1	0.4	73	2°	Ci.		
	10	- 11	- 35	N <sup>b</sup> W	2.9		-28.4	0.3	74	10	Ci. Cust.	NNW	
	Mn.	- 10	- 33	N <sup>b</sup> W	2.8	65.8	-31.4	0.2	73	0			
April 14.	2	84 10	16 31	N <sup>b</sup> W	2.3		-31.8	0.2	72	0			1
	4	- 10	- 29	N <sup>b</sup> E	2.2	66.7	-34.3	0.2	71	0			
	6	- 10	- 27	NNE	1.4		-32.0	0.2	71	10°	Cist.		
	8	- 10	- 25	N <sup>b</sup> E	2.0	67.0	-28.1	0.3	73	10	Ci. Cust.	N	—°
	10	- 9	- 23	N	2.0		-27.7	0.3	72	8	Ci. Cust.		
	Noon	- 9	- 21	NNE	2.0	67.8	-27.3	0.4	73	10°	Cist.		
	2	- 9	- 19	NNE	2.2		-27.4	0.4	73	10	Cist.		
	4	- 9	- 17	NE <sup>b</sup> N	1.4	68.3	-28.8	0.3	73	10	Cist.		
	6	- 8	- 16	NE <sup>b</sup> N	1.8		-29.7	0.3	72	1°	Ci. Cicu.	NNE	
	8	- 8	- 14	NE	1.7	68.7	-31.7	0.2	73	3	Cist.	NNE	
	10	- 8	- 12	NE	2.2		-32.7	0.2	73	0			
	Mn.	- 8	- 10	NE	2.8	69.0			71	0			
April 15.	2	84 8	16 8	NE	3.0		-32.9	0.2	71	0			
	4	- 7	- 6	NNE	2.6	69.7	-32.9	0.2	71	0			
	6	- 7	- 4	NNE	3.3		-32.0	0.2	71	0			
	8	- 7	- 0	NE <sup>b</sup> N	4.4	70.3	-31.2	0.2	72	0			
	10	- 7	15 52	NE <sup>b</sup> N	4.4		-30.3	0.3	72	0			2
	Noon	- 7	- 44	NE <sup>b</sup> N	4.4	70.9	-29.4	0.3	73	0			
	2	- 7	- 44	NNE	4.0		-28.8	0.3	73	0			
	4	- 7	- 44	NNE	4.2	71.2	-28.9	0.3	73	0			
	6	- 7	- 41	NNE	5.8		-29.0	0.3	73	0			
	8	- 7	- 38	NE <sup>b</sup> N	4.1	71.2	-29.1	0.3	72	0			
	10	- 6	- 35	NNE	4.2		-29.4	0.3	72	0			
	Mn.	- 6	- 32	NNE	4.0	71.7			71	0			
April 16.	2	84 6	15 29	NNE	4.2				72	0			3
	4	- 6	- 26	NNE	3.2	71.6			72	0			
	6	- 6	- 23	NNE	3.2				73	0			
	8	- 5	- 20	NNE	4.8	71.1	-26.9	0.4	73	10°	Ci. Cist.		
	10	- 5	- 17	NE <sup>b</sup> N	4.6		-26.5	0.4	73	10°	Ci.		
	Noon	- 5	- 14	NE <sup>b</sup> N	5.0	70.8	-26.2	0.4	72	1°	Ci.		
	2	- 5	- 11	NE <sup>b</sup> N	4.5		-26.1	0.4	72	0			
	4	- 5	- 8	NE <sup>b</sup> N	4.8	70.2	-26.6	0.4	71	0			
	6	- 5	- 6	NE <sup>b</sup> N	4.9		-27.1	0.4	71	0			4
	8	- 4	- 3	NE	4.6	69.6	-27.9	0.3	72	0			
	10	- 4	- 0	NE <sup>b</sup> N	4.2		-28.8	0.3	73	0			5
	Mn.	- 4	14 57	NE <sup>b</sup> N	4.0	69.1			72	0			
April 17.	2	84 4	14 54	NE <sup>b</sup> E	4.6				71	0			
	4	- 4	- 51	NNE	4.0	68.8			71	0			
	6	- 3	- 48	NE <sup>b</sup> E	4.2				69	0			

<sup>1</sup> A low bank of fog from S to N over the western horizon. <sup>2</sup> 4 mock-suns. <sup>3</sup> 2.30 a. m. Mock-suns.  
<sup>4</sup> A few ci. <sup>5</sup> Two or three fine belts of ci. converging towards ENE. They were drifting down towards the north.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am	Form.	Dir.	
April 17.	8	84° 3'	14° 46'	NE <sup>b</sup> E	5.0	768.5	-27.5	0.4	69	9°	Ci	NE	1 *° *° *°
	10	- 3	- 46	NE <sup>b</sup> E	3.8		-27.0	0.4	68	8°	Ci.		
	Noon	- 3	- 45	NE <sup>b</sup> E	4.4	68.9	-25.2	0.4	69	8°	Ci.		
	2	- 3	- 44	NE <sup>b</sup> E	5.5		-24.9	0.4	68	10	Cust.	ESE	
	4	- 3	- 42	E <sup>b</sup> N	5.6	68.5	-24.1	0.5	70	10	Str.		
	6	- 3	- 41	E <sup>b</sup> N	5.1		-23.9	0.5	70	7°	Cicu.	S	
	8	- 3	- 39	E <sup>b</sup> S	4.5	68.2	-23.8	0.5	71	10	Str.		
	10	- 3	- 37	E	5.0		-22.8	0.5	73	10	Str.		
	Mn.	- 3	- 36	ESE	4.0	68.1			74	10	Str.		
April 18.	2	84 2	14 34	SE <sup>b</sup> E	3.7				74	10	Str.		*° *° *° *° *° *° *° *° *° *° *° *°
	4	- 2	- 33	SE <sup>b</sup> E	2.8	68.1			75	10°	Cist.		
	6	- 2	- 31	ESE	2.0				76	10°	Ci.		
	8	- 2	- 29	E <sup>b</sup> N	1.8	68.5	-22.0	0.6	74	10	Ci. Cust.	SSE	
	10	- 2	- 28	ENE	2.2		-19.9	0.7	72	10	Cust.	SSE	
	12.15	- 2	- 26	E	4.6	68.9	-18.8	0.8	75	10	Ci. Cust.	SSE	
	2	- 2	- 26	ENE	3.5		-19.6	0.7	73	6°	Cicu.	SE	
	4	- 2	- 26	E <sup>b</sup> N	3.2	68.8	-20.6	0.6	73	3°	Ci. Cicu.		
	6	- 2	- 25	E	4.2		-20.6	0.6	74	10°	Cicu.	E	
	8	- 2	- 24	E <sup>b</sup> N	3.6	69.0	-22.1	0.6	74	7°	Cicu.	ESE	
	10	- 2	- 23	ENE	3.2		-24.4	0.5	74	10°	Cist.		
	Mn.	- 2	- 21	NE <sup>b</sup> E	3.0	69.3			74	5°	Str.		
April 19.	2	84 2	14 20	ENE	2.0				74	0			3 4 5 6 7 8 9 10 11 12 13 14
	4	- 2	- 19	ENE	2.1	69.6			72	8°	Ci.	ESE	
	6	- 2	- 17	ENE	3.0				72		Ci.		
	8	- 2	- 16	ENE	2.3	69.8	-25.2	0.4	70	0			
	10	- 1	- 15	NE	2.8		-23.0	0.5	69	0			
	Noon	- 1	- 13	NE	2.9	70.0	-23.5	0.4	70	0			
	2	- 1	- 12	NE <sup>b</sup> E	2.8		-23.7	0.4	70	0			
	4	- 1	- 11	ENE	2.0	69.4	-24.6	0.4	70	0			
	6	- 1	- 10	NE <sup>b</sup> E	2.2		-26.0	0.4	71	0			
	8	- 1	- 8	ENE	2.2	68.3	-27.8	0.3	72	0			
	10	- 1	- 7	E <sup>b</sup> N	2.6		-28.9	0.3	73	0			
	Mn.	- 1	- 6	E	2.2	67.8			71	0			
April 20.	2	84 1	14 4	E <sup>b</sup> N	2.8				74	0	Str.		≡ — — — — — — — — — — — —
	4	- 1	- 3	E	2.0	65.8			75	0	Str.		
	6	- 1	- 2	SE <sup>b</sup> E	2.2				78	0	Str.		
	8	- 1	- 0	SE	2.2	65.1	-21.1	0.6	78	0	Str.		
	10	- 1	13 59	SE <sup>b</sup> S	2.6		-19.9	0.7	78	0	Cist.		
	Noon	- 1	- 58	SE	2.2	64.5	-19.5	0.7	74	0	Ci.		
	2	- 1	- 58	SSE	3.8		-20.9	0.6	74	10	Cust.	SE	
	4	- 1	- 58	E <sup>b</sup> S	5.6	63.1	-20.1	0.7	74	10	Cust.	SE	
	6	- 1	- 57	E	6.4		-20.5	0.6	75	0			
	8	- 1	- 53	E	5.8	61.4	-23.4	0.5	74	4	Cicu.	SE	
	10	- 2	- 49	E	6.9		-21.0	0.7	76	10	Ci. Cust.	ESE	
	Mn.	- 2	- 45	E <sup>b</sup> N	7.0	59.8			76	10	Str.		
April 21.	2	84 2	13 42	E <sup>b</sup> N	7.8				77	10	Str.		* <sup>2</sup> *° *° *° *° *° *° *° *° *° *° *°
	4	- 2	- 37	E <sup>b</sup> N	9.0	58.6			77	10	Str.		
	6	- 3	- 33	E <sup>b</sup> N	9.0				77	10	Str.		
	8	- 3	- 29	E <sup>b</sup> N	7.3	57.5	-18.1	0.8	77	10	Str.		
	10	- 3	- 25	E <sup>b</sup> N	6.4		-18.1	0.8	81	10	Cust.	ESE	
	Noon	- 3	- 21	E <sup>b</sup> N	7.2	56.9	-17.4	0.8	76	10	Cist.		
	2	- 4	- 17	NE <sup>b</sup> E	6.9		-16.5	0.9	77	10°	Str.		
	4	- 4	- 14	ENE	7.4	56.1	-15.8	1.0	78	10	Cist.		
	6	- 4	- 10	ENE	6.0		-15.4	1.0	78	7	Ci. Cust.	SSE	
	8	- 4	- 6	ENE	5.8	55.9	-14.6	1.1	80	10	Cist.		
	10	- 5	- 2	ENE	6.2		-14.2	1.2	81	10	Str.		
	Mn.	- 5	12 59	E <sup>b</sup> N	6.0	56.4			81	10	Str.		

<sup>1</sup> Cirrus-belts NE to SW. <sup>2</sup> 2 Mock-suns. Fine ice-dust in the air. <sup>3</sup> Fine ice-dust in the air. <sup>4</sup> A few ci. <sup>5</sup> ⊕.



1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
April 22.	2	84° 5'	12° 55'	ENE	6.5				80	10	Cist.		*°
	4	- 6	- 51	E	6.1	757.3			82	10	Str.		*
	6	- 6	- 47	ESE	7.0				80	10	Str.		
	8	- 6	- 44	E	7.7	59.1	-14.0	1.2	78	10	Cust.	ESE	
	10	- 6	- 40	E <sup>b</sup> S	6.2		-13.2	1.3	79	10	Str.		
	Noon	- 7	- 36	E <sup>b</sup> S	7.3	60.6	-14.3	1.2	79	9	Cust.	SE	
	2	- 6	- 32	E	5.2		-15.3	1.0	78	0			
	4	- 6	- 27	E <sup>b</sup> S	4.2	61.5	-15.9	1.0	79	0			
	6	- 6	- 26	ESE	4.2		-16.3	1.0	79	0			
	8	- 7	- 26	ESE	3.6	61.8	-18.0	0.8	79	0			
	10	- 7	- 26	SE <sup>b</sup> E	3.9		-19.1	0.8	80	0			
	Mn.	- 7	- 26	SE <sup>b</sup> E	3.7	62.3			80	0			
April 23.	2	84 7	12 26	SE <sup>b</sup> E	3.2				79	0			
	4	- 8	- 26	SE <sup>b</sup> E	4.0	62.6			79	0			
	6	- 8	- 26	SE <sup>b</sup> E	4.2				77	0			
	8	- 8	- 26	SE	3.4	62.8	-19.0	0.7	75	0			
	10	- 9	- 27	SE <sup>b</sup> E	4.8		-18.5	0.7	74	0			
	12.15	- 9	- 27	SE <sup>b</sup> S	4.3	63.0	-18.0	0.8	76	0			1
	2	- 9	- 27	SE <sup>b</sup> S	4.7		-17.4	0.9	79	0			
	4	- 10	- 27	SE <sup>b</sup> S	4.6	63.0	-16.7	1.0	79	0			2
	6	- 10	- 27	SSE	5.0		-14.2	1.2	81	10	Str.		*°
	8	- 10	- 27	S	6.4	62.9	-13.9	1.3	83	10	Str.		
	10	- 10	- 27	S <sup>b</sup> W	6.6		-14.5	1.2	81	10	Cust.	SW	*°
	Mn.	- 11	- 27	SSW	4.6	63.2			81	10	Str.		
April 24.	2	84 11	12 27	SSW	4.5				81	10	Str.		
	4	- 11	- 27	SSW	5.0	63.1			83	10	Str.		
	6	- 12	- 27	S <sup>b</sup> E	6.5				81	10°	Cist.		
	8	- 12	- 27	S <sup>b</sup> E	6.9	62.7	-13.1	1.4	83	10	Str.		*°
	10	- 12	- 27	SSE	7.0		-12.6	1.4	82	10	Str.		
	Noon	- 12	- 27	S <sup>b</sup> E	8.0	62.3	-12.3	1.4	82	10	Str.		
	2	- 13	- 27	S	7.5		-11.9	1.5	84	10	Str.		
	4	- 13	- 28	S	7.6	61.9	-11.6	2.6	84	10	Str.		
	6	- 13	- 28	S	8.0		-11.0	1.7	85	10	Str.		
	8	- 14	- 28	S <sup>b</sup> E	9.0	61.4	-13.0	1.4	84	10	Ci. Cust.	S	
	10	- 14	- 28	S <sup>b</sup> E	6.0		-16.2	1.0	82	0			3
	Mn.	- 14	- 28	S <sup>b</sup> E	4.8	61.6			81	0			
April 25.	2	84 15	12 28	S	5.1				78	0			
	4	- 15	- 28	S <sup>b</sup> E	5.8	61.6			81	10	Cu.		
	6	- 15	- 28	S <sup>b</sup> E	5.8				80	10°	Cist.	SSW	
	8	- 15	- 28	S	5.6	61.7	-13.9	1.2	80	10°	Cicu.	SW	
	10	- 15	- 28	S	6.4		-12.2	1.4	78	10	Ci. Cust.	SW	
	Noon	- 15	- 28	S	6.0	61.6	-12.0	1.4	77	10	Cu.	SW	
	2	- 15	- 28	S	6.2		-12.7	1.1	66	9°	Cicu.	SW	
	4	- 16	- 28	S	5.5	62.7	-14.2	1.0	67	2°	Cicu.		4
	6	- 16	- 28	S	5.0		-14.8	1.0	73	10°	Ci.		5
	8	- 16	- 28	S	5.6	63.3	-17.0	0.9	73	10°	Cist.		
	10	- 16	- 28	S	5.8		-17.4	1.0	71	10	Cist.		6
	Mn.	- 16	- 28	S	5.6	63.6			71	10°	Cist.		
April 26.	2	84 16	12 27	S	5.4				75	6	Cist.		7
	4	- 16	- 27	S	5.8	63.6			76	10°	Cist.		
	6	- 16	- 27	S <sup>b</sup> E	6.0				76	10°	Cist.		
	8	- 16	- 27	S	6.0	63.7	-18.6	0.8	76	10°	Cist.		8
	10	- 16	- 27	S <sup>b</sup> W	6.6		-17.8	0.9	76	10°	Cist.		
	Noon	- 17	- 27	S <sup>b</sup> W	6.0	64.0	-15.6	0.9	74	7°	Cicu.	SW	9

<sup>1</sup> A few ci. <sup>2</sup> Some light ci. from S. <sup>3</sup> A thick bank of stratus from SW to N over the horizon. <sup>4</sup> 3 small pieces of bow round the sun. Fine ice-dust in the air. <sup>5</sup> 3 small pieces of bow round the sun, which were more distinct than at 4 p. m. <sup>6</sup> 10 p. m., Midn. <sup>7</sup>  $\oplus$  with 3 mock-suns. <sup>8</sup> 8, 10 a. m.  $\oplus$ . <sup>9</sup> Fragments of  $\oplus$ .



1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St. Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 1.	2	84° 11'	12° 7'	N <sup>b</sup> E	2.0				75	0			1
	4	- 11	- 5	NE	2.2	773.2			75	0			
	6	- 11	- 4		0				75	0			
	8	- 11	- 3	NNE	0.0	73.6	-25.2	0.4	74	5°	Ci.		
	10	- 11	- 1	NE	1.6		-25.1	0.4	74	10°	Ci.		
	Noon	- 11	- 0	NE	1.8	73.6	-24.9	0.4	75	10°	Ci.		
	2	- 10	11 58	NE	2.4		-24.0	0.5	75	0			
	4	- 10	- 57	NE	3.0	72.9	-24.0	0.5	76	0			
	6	- 10	- 56	NE <sup>b</sup> E	2.2		-24.9	0.4	75	0			
	8	- 10	- 54	NE	3.1	72.3	-25.7	0.5	76	0			
	10	- 10	- 53	NE	3.4		-25.8	0.4	75	0			
	Mn.	- 10	- 51	NE	3.7	71.7			73	0			
May 2.	2	84 10	11 50	NE	4.2				72	0			2
	4	- 9	- 49	NE	4.4	70.2			72	4°	Ci.		
	6	- 9	- 47	NE	5.1				71	0			
	8	- 9	- 46	NE	5.0	69.6	-23.2	0.5	72	0			
	10	- 9	- 44	NE <sup>b</sup> N	5.3		-22.3	0.5	74	0			
	Noon	- 9	- 43	NE <sup>b</sup> N	5.8	68.9	-21.9	0.6	74	0			
	2	- 9	- 43	NE <sup>b</sup> N	4.6		-21.5	0.6	74	0			
	4	- 9	- 43	NE <sup>b</sup> N	4.2	68.7	-21.2	0.6	75	0			
	6	- 9	- 43	NE <sup>b</sup> N	5.2		-21.6	0.6	73	0			
	8	- 9	- 42	NNE	4.6	68.6	-22.4	0.5	73	0			
	10	- 9	- 41	NNE	3.4		-23.6	0.5	73	0			
	Mn.	- 9	- 40	NNE	2.8	68.8			74	0			
May 3.	2	84 9	11 40	NNE	2.9				75	0			3
	4	- 8	- 39	N	2.9	69.1			75	2°	Ci.		
	6	- 8	- 38	N	2.5				77	0			
	8	- 8	- 37	NNW	2.5	69.5	-22.5	0.5	79	0			
	10	- 8	- 37	W	1.9		-21.2	0.6	76	0			
	Noon	- 8	- 36	W	1.9	70.3	-20.2	0.7	75	0			
	2	- 8	- 35	WSW	2.2		-19.3	0.7	73	0			
	4	- 8	- 34	SW <sup>b</sup> W	2.2	69.6	-18.2	0.8	73	2	Cicu.	WSW	
	6	- 8	- 34	WSW	2.3		-18.4	0.7	73	8	Cicu.	WNW	
	8	- 8	- 33	WSW	1.3	69.3	-18.1	0.8	73	9	Cicu.	NW	
	10	- 7	- 32	WNW	1.8		-17.0	0.9	74	10	Str.		
	Mn.	- 7	- 31	WNW	2.3	69.3			77	10	Str.		
May 4.	2	84 7	11 31	NW <sup>b</sup> W	2.5				79	10	Str.		*°
	4	- 7	- 30	NW <sup>b</sup> W	2.7	69.3			79	10	Str.		
	6	- 7	- 29	NW <sup>b</sup> W	1.8				79	10	Str.		
	8	- 7	- 28	NNE	1.3	69.2	-14.1	1.2	78	10	Str.		
	10	- 7	- 27	NNE	0.5		-12.0	1.2	72	10	Str.		
	Noon	- 7	- 27	ESE	0.5	69.2	-13.0	1.1	70	10	Str.		
	2	- 7	- 26	ESE	1.5		-13.1	1.1	70	10	Ci. Cust.	ESE	
	4	- 6	- 25	E	1.7	68.8	-13.7	1.1	72	10	Ci. Cust.		
	6	- 6	- 24	ENE	1.9		-13.8	1.1	73	10	Ci. Cust.		
	8	- 6	- 24	E	1.4	68.2	-15.1	1.1	77	10	Ci. Cust.		
	10	- 6	- 23	E <sup>b</sup> S	2.0		-14.9	1.1	76	10	Cust.	ENE	
	Mn.	- 6	- 22	E <sup>b</sup> S	2.5	67.8			79	10	Str.		
May 5.	2	84 6	11 21	ENE	2.8				77	10	Str.		*°
	4	- 6	- 21	ENE	3.5	67.4			78	10	Str.		
	6	- 6	- 20	ENE	3.6				81	10	Str.		
	8	- 6	- 19	NE <sup>b</sup> E	4.2	67.4	-14.4	1.1	78	10	Str.		
	10	- 5	- 18	ENE	4.0		-14.7	1.1	78	10	Str.		
	Noon	- 5	- 18	E <sup>b</sup> N	4.6	67.6	-14.8	1.1	77	10	Str.		

<sup>1</sup> 10 a. m., Noon. An inverted piece of bow above the sun. <sup>2</sup> A bank of str. from WSW-WNW-NNW up to a height of about 15° above the horizon. <sup>3</sup> Bright bank of clouds on the horizon in WSW. <sup>4</sup> A gathering bank. <sup>5</sup> Between W and SSE continuous patches of blue sky; in some parts 3, one above another. A single patch in SE. <sup>6</sup> Dark sky on the horizon between S and NE over SE; between S and SE several clear patches of blue sky.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 5.	2	84° 5'	11° 17'	NE <sup>b</sup> E	4.5		-14.9	1.1	77	10	Str.		
	3	- 5	- 17	NE <sup>b</sup> E	5.0	767.7	-15.1	1.1	77	10	Str.		
	6	- 5	- 15	ENE	5.8		-15.2	1.0	76	10	Str.		
	8	- 5	- 15	NE <sup>b</sup> E	3.8	68.2	-15.5	1.1	77	10	Str.		
	10	- 5	- 14	NE	5.2		-16.3	0.9	73	10	Str.		
	Mn.	- 5	- 13	NE <sup>b</sup> E	6.4	68.9			76	10	Str.		
May 6.	2	84 5	11 12	NE	5.7				77	10	Str.		
	4	- 5	- 12	NE <sup>b</sup> E	5.8	69.7			77	10	Str.		
	6	- 4	- 11	NE	5.8				77	10	Str.		
	8	- 4	- 10	NE	5.4	70.4	-17.5	0.8	76	10	Str.		
	10	- 4	- 9	NE	5.4		-18.7	0.8	78	10	Str.		
	Noon	- 4	- 9	NNE	4.7	71.5	-21.1	0.6	77	10	Ci. Cust.		
	2	- 4	- 9	NE <sup>b</sup> N	3.8		-20.9	0.7	81	10	Ci. Cust.		
	4	- 4	- 9	NE <sup>b</sup> N	4.2	72.3	-22.3	0.6	76	0			
	6	- 4	- 9	NE <sup>b</sup> N	3.4		-23.0	0.5	74	0			
	8	- 4	- 9	NE <sup>b</sup> N	3.4	72.2	-24.1	0.5	74	0			
	10	- 3	- 9	N <sup>b</sup> E	2.9		-25.1	0.4	72	0			
	Mn.	- 3	- 9	NNE	2.8	72.5			72	0			
May 7.	2	84 3	11 9	N <sup>b</sup> E	2.5				71	0			
	4	- 2	- 9	NNW	2.2	72.5			73	0			
	6	- 2	- 9	N	2.4				74	0			
	8	- 2	- 9	N	2.8	72.1	-24.7	0.4	75	0			
	10	- 2	- 9	NNW	3.0		-23.2	0.5	74	0			
	Noon	- 1	- 9	NNW	3.1	72.2	-22.8	0.5	74	0			
	2	- 1	- 9	NW <sup>b</sup> N	2.9		-21.8	0.5	72	0			
	4	- 0	- 9	NW <sup>b</sup> N	3.8	71.7	-22.3	0.5	71	0			
	6	- 0	- 9	NW	4.1		-22.7	0.5	73	0			
	8	83 59	- 9	NW	4.0	70.9	-23.3	0.4	69	5°	Ci.	N	
	10	- 59	- 9	NW <sup>b</sup> W	4.4		-23.4	0.4	70	0			
	Mn.	- 59	- 9	NW	4.2	70.3			70	0			
May 8.	2	83 58	11 9	NW <sup>b</sup> W	6.8				68	10°	Cist.		
	4	- 58	- 9	NW <sup>b</sup> W	6.8	69.1			66	4°	Cist.		
	6	- 57	- 9	NW <sup>b</sup> W	7.2				64	10°	Cicu.		
	8	- 57	- 9	NW <sup>b</sup> W	6.8	68.2	-19.8	0.6	66	10	Str.		
	10	- 56	- 9	NW	7.2		-18.7	0.7	67	10	Str.		
	Noon	- 56	- 9	NW <sup>b</sup> N	6.8	67.6	-17.5	0.8	70	10	Cust.		
	2	- 56	- 8	NW	6.3		-16.9	0.8	72	10	Cust.	NW	
	4	- 56	- 8	NW <sup>b</sup> N	5.2	67.1	-16.4	0.9	73	10	Str.		
	6	- 55	- 7	NW <sup>b</sup> N	3.5		-16.1	0.9	75	10	Str.		
	8	- 55	- 6	NW <sup>b</sup> N	4.2	66.4	-16.3	1.0	79	10	Str.		
	10	- 55	- 6	NW <sup>b</sup> N	2.9		-16.1	0.9	76	10	Str.		*°
	Mn.	- 55	- 5	N <sup>b</sup> E	3.3	66.0			81	10	Str.		
May 9.	2	83 54	11 4	NW	1.6				76	6	Cist.		*°
	4	- 54	- 4	NW <sup>b</sup> W	2.5	65.1			78	10°	Cist.		
	6	- 54	- 3	NW	3.2				77	5°	Cist.		
	8	- 54	- 2	NW <sup>b</sup> W	3.0	64.9	-14.8	1.1	79	10°	Cist.		
	10	- 54	- 2	NW	4.0		-15.1	1.1	79	10°	Cicu.		
	Noon	- 54	- 2	NW <sup>b</sup> W	4.5	64.8	-13.8	1.2	79	10°	Str.		
	2	- 54	- 3	NW <sup>b</sup> W	2.6		-14.2	1.2	81	0			
	4	- 54	- 5	NW <sup>b</sup> W	3.6	64.5	-14.5	1.1	79	1°	Ci.		
	6	- 54	- 7	WNW	2.4		-14.5	1.1	75	7°	Cicu.		
	8	- 54	- 9	WNW	2.6	64.1	-15.6	1.0	76	1°	Ci.		
	10	- 54	- 10	W <sup>b</sup> N	1.8		-16.4	0.9	76	3°	Ci.		
	Mn.	- 54	- 12	W <sup>b</sup> N	2.3	63.9			79	9°	Ci.	NW a N	

<sup>1</sup> Fine dustlike — on the instruments. <sup>2</sup> Bank of cicu. on the horiz. between NNW and ESE. <sup>3</sup> ⊕. <sup>4</sup> Bank of cicu. in WNW. 8.15 a.m. Cicu from NW; reached the altitude of 7°. <sup>5</sup> Clearing up in N.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 10.	2	83° 53'	11° 14'	WSW	2.5				81	8	Ci.		
	4	- 53	- 16	SW b W	2.2	763.2			79	10°	Cicu.		
	6	- 53	- 18	WSW	3.0				78	10°	Cicu.		
	8	- 53	- 19	SW b W	3.7	62.4	-15.5	1.1	76	10°	Ci. Cist.		
	10	- 53	- 21	WSW	3.8		-14.3	1.1	76	10°	Cist.		
	Noon	- 53	- 23	WSW	3.6	62.3	-13.9	1.1	76	10	Cist.		
	2	- 52	- 23	WSW	4.0		-13.1	1.2	74	10°	Ci. Cist.		
	4	- 52	- 23	WSW	3.2	61.5	-13.1	1.2	74	10°	Cist.		
	6	- 52	- 23	W b S	3.3		-14.0	1.1	74	10°	Cist.		
	8	- 52	- 23	W b S	2.2	61.0	-15.4	1.0	71	10°	Cist.		
	10	- 51	- 23	W b S	2.4		-15.4	1.1	80	10°	Ci. Cist.		
	Mn.	- 51	- 23	W b S	2.5	60.7			77	10°	Cist.		
May 11.	2	83 51	11 24	W b S	3.2				77	10°	Cist.		
	4	- 51	- 24	W b S	4.0	61.3			77	10	Cist.		
	6	- 51	- 24	W b N	3.3				75	10°	Cist.		
	8	- 51	- 24	W	3.6	60.3	-14.0	1.1	75	10°	Cist.		*°
	10	- 51	- 24	W	2.9		-14.3	1.1	75	10°	Cist.		*°
	Noon	- 51	- 24	W	2.9	60.7	-13.7	1.2	76	10°	Cist.		
	2	- 51	- 26	W	3.2		-12.7	1.3	76	0			
	4	- 51	- 28	W b N	3.2	60.7	-12.7	1.3	76	0			
	6	- 51	- 30	WNW	2.8		-13.2	1.2	76	0			
	8	- 51	- 32	NW b W	2.8	61.0	-13.7	1.2	78	10	Cust.	N	
	10	- 51	- 35	WNW	1.8		-12.3	1.3	79	10	Cicu.	NW	
	Mn.	- 51	- 37	WNW	2.1	61.0			80	10°	Cicu.	NNW	
May 12.	2	83 51	11 39	WNW	1.8				82	10	Cist.		
	4	- 51	- 41	WSW	1.6	60.8			82	10	Cist.		
	6	- 51	- 43	WSW	2.2				82	10	Cust.	NW	
	8	- 51	- 45	SW b S	3.3	60.7	-10.8	1.5	79	10	Cust.	WSW	
	10	- 51	- 47	S b W	6.2		- 9.6	1.5	71	10	Str.		
	Noon	- 51	- 49	S b W	7.6	59.3	- 9.6	1.8	83	10	Str.		
	2	- 51	- 51	S b W	7.2		- 8.6	1.9	81	10	Str.		*°
	4	- 51	- 53	SSW	8.0	57.1	- 6.8	2.3	85	10	Str.		*°
	6	- 51	- 56	SSW	7.3		- 5.7	2.5	86	10	Cicu.	SW	*°
	8	- 51	- 58	SW b S	7.6	55.2	- 5.7	2.5	86	10	Str.		
	10	- 51	12 0	WSW	6.6		- 6.0	2.3	79	10	Str.		
	Mn.	- 51	- 2	W b S	5.8	54.6			81	10	Str.		
May 13.	2	83 51	12 4	W b S	7.0				83	10	Cist.		
	4	- 51	- 6	W b S	7.2	54.3			81	10	Cist.		
	6	- 51	- 8	W b S	7.4				80	10	Str.		
	8	- 51	- 10	WSW	5.3	54.5	- 8.5	1.9	82	10	Str.		*°
	10	- 51	- 12	W b S	4.4		- 8.8	1.9	82	10°	Ci. Cist.	W	
	Noon	- 51	- 14	W	4.4	55.1	-10.0	1.7	79	0			
	2	- 51	- 15	W	4.2		-10.6	1.3	68	0			
	4	- 51	- 15	W	2.5	55.8	-11.4	1.4	75	0			
	6	- 51	- 15	WSW	1.8		-10.8	1.4	72	5°	Ci.	WNW	
	8	- 51	- 15	WSW	1.6	56.3	-11.0	1.3	69	7°	Ci.		
	10	- 50	- 15	SSE	1.5		-12.5	1.4	80	6°	Ci.		
	Mn.	- 50	- 14	ESE	1.7				92	10	Str.		*°
May 14.	2.15	83 50	12 14	E b N	1.7				85	10	Str.		*°
	4	- 50	- 14	E b N	3.1	56.8			87	10	Str.		*°
	6	- 50	- 14	E b N	4.2				88	10	Str.		*°
	8	- 49	- 14	NE	5.2	57.5	-10.7	1.7	85	10	Str.		*°
	10	- 49	- 14	NE b N	6.3		-11.0	1.7	87	10	Str.		*°
	Noon	- 49	- 14	NE b N	6.5	59.0	-11.7	1.5	86	10	Str.		*°
	2	- 49	- 13	N	7.4		-11.8	1.5	86	10°	Str.		*°
	4	- 49	- 13	N	7.3	61.0	-12.8	1.4	86	10°	Str.		*°

<sup>1</sup> The upper half of a  $\oplus$ . <sup>2</sup> Blue sky in WSW. <sup>3</sup> Unusually rapid drift of the clouds. <sup>4</sup> From E over S to W nearly continuous blue sky, less on the N sky. <sup>5</sup> Deep blue sky between ESE and WSW.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 14.	6	83° 49'	12° 13'	N	6.0		-14.0	1.2	81	10°	Cicu.	NW	* <sup>2</sup>
	8	- 48	- 13	N <sup>b</sup> W	3.9	763.7	-14.9	1.0	73	10°	Ci.	WNW	
	10.15	- 48	- 13	NW	3.9		-16.3	1.0	78	3°	Ci. Cicu.	W	
	Mn.	- 48	- 13	NW <sup>b</sup> N	4.0	65.7			82	10°	Ci.		
May 15.	2	83 48	12 12	NW <sup>b</sup> W	3.6				81	5°	Cicu.	W	1 2 3 4 5 6 *° *° *° *° *° *° *°
	4	- 48	- 12	WNW	3.0	67.0			81	5°	Ci.		
	6	- 47	- 12	WNW	3.3				79	10°	Ci.		
	8	- 47	- 12	W <sup>b</sup> S	3.7	68.2	-15.4	1.0	76	10°	Cicu.	W	
	10	- 47	- 12	WNW	4.8		-13.4	1.2	77	10	Str.		
	Noon	- 47	- 12	NW <sup>b</sup> W	4.8	69.1	-12.5	1.3	77	10	Str.		
	2	- 47	- 11	WNW	4.5		-12.6	1.3	76	10°	Str.		
	4	- 46	- 11	NW <sup>b</sup> W	4.8	69.7	-13.2	1.3	80	10°	Str.		
	6	- 46	- 11	NW <sup>b</sup> W	4.8		-13.5	1.2	81	10°	Str.		
	8	- 46	- 11	NW <sup>b</sup> W	3.4	69.9	-13.7	1.2	81	10°	Str.		
	10	- 46	- 11	W <sup>b</sup> N	3.2		-13.4	1.3	81	10	Str.		
	Mn.	- 46	- 11	WNW	1.7	69.6			83	10	Str.		
May 16.	2	83 46	12 10		0				81	10°	Cist.		*° *° *° *° *° *° *° *° *° *° *°
	4	- 45	- 10	E	2.9	68.5			79	10°	Cist.		
	6	- 45	- 10	ESE	3.4				80	10°	Cist.		
	8	- 45	- 10	SE <sup>b</sup> E	3.9	67.7	-12.7	1.3	80	10	Cist.		
	10	- 45	- 10	ESE	5.6		-12.1	1.4	80	10	Ci. Cust.		
	Noon	- 45	- 10	ESE	5.9	66.7	-11.7	1.4	80	10	Cist.		
	2	- 45	- 9	ESE	7.0		-10.9	1.6	84	10	Ci. Cust.		
	4	- 45	- 7	SE <sup>b</sup> E	7.4	65.6	-10.0	1.7	85	10	Str.		
	6	- 45	- 6	ESE	7.2		- 9.6	1.9	87	10°	Str.		
	8	- 46	- 4	SE <sup>b</sup> E	6.0	64.6	- 8.6	2.0	89	10	Str.		
	10	- 46	- 3	SE <sup>b</sup> E	5.3		- 7.2	2.3	91	10	Str.		
	Mn.	- 46	- 2	SE <sup>b</sup> E	5.0	64.6			94	10	Str.		
May 17.	2	83 46	12 1	SE <sup>b</sup> E	4.0				96	10	Str.		7 8 *°
	4	- 46	11 59	SE <sup>b</sup> S	4.0	64.7			94	10	Str.		
	6	- 46	- 58	SE <sup>b</sup> S	3.5				92	10°	Cist.		
	8	- 47	- 57	SSE	4.2	65.1	- 4.2	2.2	87	10	Cicu.	S	
	10	- 47	- 55	SE <sup>b</sup> E	3.8		- 3.2	3.0	83	10	Ca.	S	
	Noon	- 47	- 54	ESE	3.7	65.5	- 3.6	3.0	86	10	Str.		
	2	- 47	- 53	ESE	4.2		- 3.1	3.2	89	10	Str.		
	4	- 47	- 51	ESE	5.2	65.1	- 3.5	3.2	90	10	Str.		
	6	- 47	- 50	E <sup>b</sup> S	5.8		- 5.5	2.7	90	10	Str.		
	8	- 47	- 49	E <sup>b</sup> N	5.8	64.8	- 7.9	2.2	88	10	Str.		
	10	- 48	- 47	E <sup>b</sup> N	6.5		-10.2	1.8	87	10	Str.		
	Mn.	- 48	- 46	ESE	7.0	64.3			84	10	Str.		
May 18.	2	83 48	- 45	E <sup>b</sup> S	6.6				82	10	Str.		9 *°
	4	- 48	- 43	E <sup>b</sup> N	6.2	64.0			82	10	Str.		
	6	- 48	- 42	E <sup>b</sup> N	6.2				79	10	Cist.		
	8	- 48	- 41	NE	6.2	62.4	-13.6	1.2	77	10	Cust		
	10	- 49	- 39	E <sup>b</sup> N	5.0		-13.9	1.1	73	10°	Str.		
	Noon	- 49	- 38	NE	4.4	61.4	-14.2	1.1	75	10°	Str.		
	2	- 49	- 36	NE	3.9		-13.9	1.1	76	10	Str.		
	4	- 49	- 35	NE <sup>b</sup> N	3.0	60.2	-14.0	1.1	75	10	Str.		
	6	- 48	- 33	N	3.8		-14.8	1.2	81	10	Str.		
	8	- 48	- 31	NNW	2.0	59.0	-14.5	1.2	81	10	Str.		
	10	- 48	- 30	N	2.4		-15.3	1.1	80	10	Str.		
	Mn.	- 48	- 28	NNW	2.2	58.5			80	10	Str.		

<sup>1</sup> Blue sky in SE. <sup>2</sup> Blue sky between SE and NNW over E. <sup>3</sup> Blue sky over the horizon from SSW to ESE; most in SE. <sup>4</sup> Deep blue sky in SSE and SE, and also fairly continuous blue sky between SE and W. <sup>5</sup> Blue sky in SE and ESE. Can trace the great lane of water forward, by the blue sky until it is lost on the horizon in SE. <sup>6</sup> Above-mentioned blue sky has gone over to SSE and S. <sup>7</sup> The old lane open since midnight yesterday. <sup>8</sup> Faint blue sky between NNW and ESE. The lane in front, running SSW, closed; to starboard, about 500 m. from the ship, a large lane running ESE-WNW. <sup>9</sup> The ice compact; no blue sky.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 19.	2	83° 48'	11° 26'	W	2.0				83	10	Str.		
	4	- 48	- 25	W	2.0	758.9			82	10	Str.		
	6	- 48	- 23	WSW	2.8				81	10	Str.		
	8	- 48	- 21	SW b W	1.7	59.3	-14.0	1.1	77	10	Str.		*°
	10	- 48	- 20	SW b S	2.9		-14.2	1.1	77	10	Str.		
	Noon	- 48	- 18	SSW	3.4	60.1	-14.1	1.1	76	10	Ci. Cust.		
	2	- 48	- 18	S b W	3.2		-13.7	1.2	77	10	Ci. Cust.	SSW	*°
	4	- 48	- 18	SSE	3.8	60.8	-14.0	1.2	78	10	Ci. Cust.		
	6	- 48	- 18	SE b S	2.8		-13.8	1.2	78	10	Ci. Cust.		
	8	- 48	- 19	ESE	3.5	60.9	-14.8	1.2	86	10	Str.		
	10	- 48	- 21	SE	3.0		-15.5	1.2	90	10	Cist.		
	Mn.	- 48	- 22	ESE	3.8	61.2			88	10°	Cicu.	SW	1°
May 20.	2	83 49	11 23	SE b E	4.2				86	10°	Cicu.	SW	
	4	- 49	- 24	ESE	5.0	60.6			86	9°	Cicu.	SE	
	6	- 49	- 25	ESE	4.0				8°	Cist.	SE		
	8	- 49	- 26	SE	5.0	59.8	-10.5	1.6	80	10	Str.		*°
	10	- 50	- 27	SE	6.6		- 8.8	1.9	82	10	Str.		
	Noon	- 50	- 28	SE b S	7.0	59.3	- 8.0	2.1	84	10	Str.		*°
	2	- 50	- 29	S b E	6.2		- 7.5	2.2	85	10	Str.		*°
	4	- 50	- 30	S	6.4	58.6	- 5.8	2.7	92	10°	Str.		
	6	- 50	- 31	S b E	6.3		- 5.3	2.7	89	10°	Str.		*°
	8	- 51	- 32	WSW	4.6	58.4	- 4.5	2.8	88	10°	Str.		
	10	- 51	- 33	SW b S	4.0		- 5.9	2.3	80	10	Str.		
	Mn.	- 51	- 34	SW b S	3.4	59.4			86	10	Cust.	W	
May 21.	2	83 51	11 35	S	3.8				90	10	Str.		
	4	- 52	- 36	S b E	4.2	59.4			89	10°	Str.		
	6	- 52	- 37	SE	3.7				94	10	Str.		
	8	- 52	- 38	S b W	6.2	58.0	- 0.9	4.0	95	10	Str.		⊙ * <sup>1</sup>
	10	- 52	- 40	S b W	7.6		- 0.2	4.2	93	10	Cust.	S	⊙ *
	Noon	- 53	- 41	S b W	7.4	57.6	0.1	4.2	91	10	Str.		⊙ *
	2	- 53	- 42	SSW	8.5		- 0.4	4.2	95	10	Str.		⊙ *
	4	- 53	- 43	SW b S	6.8	57.5	- 2.2	3.2	84	10	Cicu.	SW	
	6	- 53	- 44	SW b S	4.0		- 3.2	2.5	71	1°	Ci.		
	8	- 53	- 45	S b W	4.0	57.3	- 3.2	2.9	81	7°	Cicu.	SW	
	10	- 54	- 46	S b E	5.0		- 2.9	3.4	91	10	Str.		
	Mn.	- 54	- 47	SSE	5.2	56.5			98	10	Str.		
May 22.	2	83 54	11 48	S	7.4				98	10	Str.		*°
	4	- 54	- 49	S b W	3.5	55.7			94	10	Str.		*°
	6	- 55	- 50	SW b W	3.7				89	10	Str.		*°
	8	- 55	- 51	SW b S	4.1	56.3	- 3.2	2.8	78	10	Str.		
	10	- 55	- 52	S b E	4.6		- 1.5	3.2	79	10	Str.		2
	Noon	- 55	- 53	SSW	7.4	55.9	- 2.4	3.3	87	10°	Str.		*°
	2	- 56	- 54	S b W	8.2		- 1.9	3.7	92	10	Str.		*°
	4	- 56	- 55	SSW	7.6	55.4	- 2.2	3.4	88	10	Str.		3
	6	- 56	- 56	SSW	9.2		- 1.9	3.6	90	10	Str.		4
	8	- 56	- 57	SSW	9.8	54.8	- 1.6	3.8	95	10	Str.		⊙ *
	10	- 56	- 59	S b W	9.7		- 1.2	4.0	94	10	Str.		⊙ *
	Mn.	- 57	12 0	SSW	10.5	55.2			92	10	Str.		
May 23.	2	83 57	12 1	S b W	10.8				98	10	Str.		
	4	- 57	- 2	SSW	10.2	54.9			96	10	Str.		
	6	- 57	- 3	SSW	11.0				88	10	Str.		
	8	- 58	- 4	SW b S	9.5	56.1	0.7	4.3	91	10	Str.		*° <sup>5</sup>
	10	- 58	- 5	SW b S	10.6		0.4	4.3	90	10	Str.		
	Noon	- 58	- 6	SW b S	10.8	57.8	0.0	4.0	88	10	Ci. Cicu.	SW	6

<sup>1</sup> Exactly at 8 a. m. a little rift in the clouds, so that the sun shone through; cicu. were seen behind the stratus. <sup>2</sup> 11 p. m. Cust. in SW. <sup>3</sup> Fine granular snow. <sup>4</sup>  $\sim$  on the rigging. <sup>5</sup>  $\sim$  this afternoon. <sup>6</sup> Fine granular snow or  $\Delta$ . <sup>6</sup> 11 p. m. Cist. Cicu. in SW.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form	Dir.	
May 23.	2	83° 58'	12° 11'	SW <sup>b</sup> S	8.5		0.9	4.5	91	10	Str.		
	4	- 59	- 17	SW <sup>b</sup> S	8.0	759.2	1.2	4.6	92	10	Str.		
	6	- 59	- 23	SW <sup>b</sup> S	8.0		1.0	4.7	95	10	Str.		
	8	- 59	- 28	SSW	7.8	60.1	0.9	4.6	95	10	Str.		
	10	- 59	- 34	SW <sup>b</sup> S	6.8		0.4	4.6	99	10	Str.		
	Mn.	84 0	- 40	SSW	7.2	60.8			95	10	Str.		
May 24.	2	84 0	12 45	SSW	8.2				95	10	Str.		
	4	- 0	- 51	S <sup>b</sup> E	5.0	60.6			93	10			
	6	- 1	- 57	S	4.5				86	0			
	8	- 1	13 1	SE <sup>b</sup> E	4.4	59.5	-0.9	3.6	84	0			
	10	- 1	12 59	SE	6.4		-3.8	3.3	95	10			1 ≡
	Noon	- 1	- 57	SE <sup>b</sup> E	5.7	58.2	-3.4	3.3	94	10°	Str.		
	2	- 1	- 54	ESE	7.4		-2.4	3.7	97	10	Str.		
	4	- 1	- 51	E <sup>b</sup> S	8.1	55.8	-1.7	3.8	94	10°	Str.		
	6	- 1	- 50	E <sup>b</sup> S	9.4		-1.5	3.7	91	10°	Cicu.	SE	2
	8	- 1	- 50	SE <sup>b</sup> E	8.1	53.3	-2.2	3.7	97	10	Cist.	E	3
	10	- 1	- 50	SE <sup>b</sup> E	7.3		-1.0	4.2	98	10	Str.		*° 4
	Mn.	- 1	- 50	SE	8.0	51.7			96	10	Str.		
	2	84 1	12 51	SE	6.8				96	10	Str.		
May 25.	4	- 0	- 51	SE	7.2	50.8			97	10	Str.		
	6	- 0	- 51	SE <sup>b</sup> E	6.1				97	10	Str.		⊙
	8	- 0	- 52	SE <sup>b</sup> E	7.7	49.5	0.8	4.7	96	10	Str.		⊙ 5
	10	- 0	- 52	SE	5.2		1.2	4.9	96	10	Str.		
	Noon	- 0	- 52	S <sup>b</sup> E	4.2	49.0	1.6	4.8	93	10	Str.		
	2	- 0	- 52	S <sup>b</sup> E	3.3		1.6	4.9	94	10	Str.		⊙ *
	4	- 0	- 53	S <sup>b</sup> E		47.9	2.2	4.8	90	10	Str.		
	6	- 0	- 53	S <sup>b</sup> E			1.7	4.7	91	10	Str.		
	8	- 0	- 53	WSW		47.0	0.8	4.3	89	10	Cust.	WNW	
	10	- 0	- 54	SW <sup>b</sup> S	3.1		0.5	4.4	92	10	Str.		
	Mn.	83 59	- 54	SSW	2.3	46.8			92	10	Str.		*°
	2	83 59	12 54	SE	1.8				89	10	Str.		*°
	4	- 59	- 55	SE	4.4	46.1			95	10	Str.		
	6	- 59	- 55	SE	4.8				95	10	Str.		*°
May 26.	8	- 59	- 56	SE <sup>b</sup> S	4.9	45.3	0.8	4.5	95	10	Str.		*°
	10	- 59	- 55	S <sup>b</sup> E	4.5		0.9	4.5	91	10	Str.		*
	Noon	- 59	- 56	S	3.8	45.4	1.4	4.4	87	10	Str.		
	2	- 59	- 56	SSE	4.5		1.4	4.5	89	10	Str.		
	4	- 59	- 56	S	4.0	45.4	0.2	4.2	90	10	Cust.	SSE	
	6	- 58	- 57	SSE	1.6		1.2	4.4	88	10	Str.		
	8	- 58	- 57	NE <sup>b</sup> N	2.2		-0.1	3.9	86	10	Str.		
	10	- 58	- 57	N	3.1		-0.2	3.9	87	10	Str.		
	Mn.	- 58	- 57	NNW	6.0	44.8			85	10	Str.		*
	2	83 58	12 58	NW <sup>b</sup> N	8.5				93	10	Str.		*°
	4	- 58	- 58	NNW	11.0	45.0			91	10	Str.		*°
	6	- 58	- 58	NNW	11.4				92	10	Str.		*°
	8	- 58	- 59	NNW	11.5	45.8	-6.5	2.5	92	10	Str.		*°
	10	- 58	- 59	NNW	13.2		-6.6	2.5	92	10	Str.		*°
May 27.	Noon	- 58	- 59	NNW	14.0	46.6	-6.3	2.5	89	10	Str.		*°
	2	- 57	- 59	NW	12.2		-6.1	2.6	90	10	Str.		*°
	4	- 57	13 0	NW	10.8	47.0	-6.0	2.6	90	10	Str.		*°
	6	- 57	- 0	NW <sup>b</sup> W	7.1		-5.9	2.6	91	10	Str. Cicu.	N	*°
	8	- 57	- 0	NW <sup>b</sup> W	10.0	46.8	-5.9	2.6	89	10	Str. Cicu.	N	*°
	10	- 57	- 1	NW <sup>b</sup> W	9.6		-5.5	2.6	87	10	Cust.		*°
	Mn.	- 57	- 1	NW <sup>b</sup> W	9.3	46.1			90	10	Str.		

<sup>1</sup> 9.30 a. m. ≡ came suddenly. <sup>2</sup> Blue sky over the horizon in SSE. <sup>3</sup> 9 p. m. \*°. <sup>4</sup> Snow blown into the thermometer-screen. <sup>5</sup> A few faint patches of blue sky in SSE; and frequent patches along the horizon from E over NE to NW.



1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
May 28.	2	83° 57'	13° 1'	WNW	6.3				91	10	Str.		*°
	4	- 57	- 1	W <sup>b</sup> N	6.1	74.6			91	10°	Str.		
	6	- 57	- 2	W <sup>b</sup> S	3.6				93	10	Cust.		
	8	- 56	- 2	W	2.7	43.4	-2.8	3.2	88	10	Str.		*° <sup>1</sup>
	10	- 56	12 59	NW <sup>b</sup> W	1.6		0.0	4.0	87	10	Str.		<sup>2</sup>
	Noon	- 56	- 56	NNW		43.1	0.2	4.5	91	10	Str.		
	2	- 56	- 54	SSW	1.5		0.0	4.3	95	10	Str.		*°≡°
	4	- 56	- 51	N	4.0	43.1	-0.8	4.1	94	10	Str.		
	6	- 56	- 49	N <sup>b</sup> W	3.3		-1.0	3.9	90	10	Str.		
	8	- 56	- 46	SE	2.6	43.7	-2.0	3.7	95	10	Str.		
	10	- 55	- 44	ESE	5.3		-3.6	3.3	96	10	Str.		☉ *
	Mn.	- 55	- 41	E <sup>b</sup> N	5.0	44.7			90	10	Str.		
May 29.	2	83 55	12 39	E <sup>b</sup> N	6.0				91	10	Str.		
	4	- 55	- 36	E	7.0	45.7			93	10	Str.		
	6	- 55	- 34	E <sup>b</sup> N	6.8				88	10	Str.		
	8	- 55	- 31	ENE	8.1	47.6	-5.8	2.6	90	10	Str.		
	10	- 55	- 29	NE <sup>b</sup> E	5.7		-4.8	2.2	70	10	Str.		
	Noon	- 54	- 28	NE <sup>b</sup> E	5.5	48.8	-4.0	2.4	72	10	Cust.		*°
	2	- 54	- 26	NE <sup>b</sup> N	4.6		-4.7	2.5	79	10	Cust.		
	4	- 54	- 24	N <sup>b</sup> E	5.9	49.4	-5.2	2.2	71	10	Cust.		
	6	- 54	- 22	N <sup>b</sup> E	4.8		-5.8	2.3	80	10	Cicu.		
	8	- 54	- 21	NNW	6.4	50.1	-5.0	2.5	82	10	Str.		
	10	- 53	- 21	NNW	6.1		-4.0	2.9	88	10	Str.		
	Mn.	- 53	- 22	NNW	8.0	50.1			95	10	Str.		
May 30.	2	83 52	12 22	NNW	9.4				95	10	Str.		
	4	- 51	- 22	NW <sup>b</sup> N	7.7	50.6			94	10	Str.		
	6	- 50	- 23	NW <sup>b</sup> N	7.6				98	10	Str.		
	8.15	- 49	- 23	NW <sup>b</sup> N	8.5	50.6	-2.0	3.6	92	10	Str.		
	10	- 49	- 23	NW <sup>b</sup> N	8.6		-1.8	3.6	90	10	Str.		
	Noon	- 48	- 24	NW <sup>b</sup> N	7.4	50.8	-2.7	3.3	89	10	Str.		
	2	- 47	- 24	NW <sup>b</sup> N	8.4		-3.6	3.3	81	6	Ci. Cust.	NW	
	4	- 46	- 24	NW	9.2	51.0	-3.2	3.2	90	10	Str.		*°
	6	- 46	- 25	NW	11.2		-3.7	3.2	94	10	Str.		*°
	8	- 45	- 25	NW <sup>b</sup> N	8.0	50.6	-3.9	3.0	92	10	Str.		*°
	10	- 44	- 25	NW <sup>b</sup> N	7.6		-4.4	3.0	93	10	Str.		*°
	Mn.	- 43	- 25	NW <sup>b</sup> N	9.6	50.0			93	10	Str.		*°
May 31.	2	83 43	12 26	NW <sup>b</sup> N	9.4				91	10	Str.		*°
	4	- 42	- 26	NW <sup>b</sup> N	10.7	49.7			92	10	Str.		*°
	6	- 41	- 26	NW <sup>b</sup> N	9.0				90	10	Str.		
	8	- 40	- 27	NNW	6.2	50.2	-2.3	3.5	92	10	Str.		
	10	- 40	- 27	NNW	6.8		-2.3	3.5	92	10	Str.		
	Noon	- 39	- 27	N <sup>b</sup> W	6.8	51.3	-2.1	3.4	87	10	Str.		*°
	2	- 38	- 28	N <sup>b</sup> W	6.5		-2.1	3.5	89	10	Str.		*°
	4	- 37	- 28	N	6.3	52.1	-1.9	3.7	94	10	Str.		
	6	- 36	- 28	N	6.8		-1.5	3.9	94	10°	Str.		*° <sup>3</sup>
	8	- 36	- 29	N	8.3	53.6	-2.0	3.5	90	10	Str.		<sup>4</sup>
	10	- 35	- 29	N	7.0		-1.5	3.6	89	10	Str.		<sup>5</sup>
	Mn.	- 34	- 29	N	6.6	54.3			97	10	Str.		
June 1.	2	83 33	12 29	N <sup>b</sup> E	7.8				92	10	Str.		<sup>6</sup>
	4	- 33	- 30	N <sup>b</sup> E	9.0	54.5			95	10	Str.		*°
	6	- 32	- 30	N	9.3				95	10	Str.		*°
	8	- 31	- 30	N	8.7	53.6	-2.6	3.5	95	10	Str.		<sup>7</sup>
	10	- 30	- 31	N	9.4		-2.4	3.6	95	10	Str.		*°
	Noon	- 30	- 31	N	9.0	52.4	-2.6	3.6	96	10	Str.		*°

<sup>1</sup> 7.30 a. m. Cust. <sup>2</sup> Cleaned the screen from snow. <sup>3</sup> 7.30 p. m. Numerous patches of deep blue sky between SSW to N over SSE; uniform all the way, but bluest about SSE and N. <sup>4</sup> Blue sky in N and round SSE; some small patches between N and SSE, and in SSW. <sup>5</sup> Blue sky all round the horizon except over 2-3 points round WNW; bluest in SE and N. <sup>6</sup> Blue sky all round the horizon. <sup>7</sup> Thick.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 1.	2	83° 29'	12° 31'	NNW	9.9		-2.6	3.4	90	10	Str.		
	4	- 28	- 32	NbW	10.6	750.2	-2.5	3.6	94	10	Str.		* <sup>2</sup>
	6	- 27	- 32	NNW	10.9		-2.0	3.6	92	10	Str.		* <sup>2</sup>
	8	- 27	- 32	NNW	11.0	48.4	-2.0	3.7	95	10	Str.		* <sup>2</sup>
	10	- 26	- 33	NbW	12.3		-2.7	3.7	98	10	Str.		* <sup>2</sup>
	Mn.	- 25	- 33	NbW	11.3	48.5			90	10	Str.		
June 2.	2	83 24	12 33	NNW	11.5				88	10	Str.		
	4	- 23	- 33	NNW	9.0	48.7			99	10	Str.		
	6	- 23	- 34	NNW	11.7				92	10	Str.		
	8	- 22	- 34	NW <sup>b</sup> N	9.7	49.6	-3.9	2.7	81	10	Str.		
	10	- 21	- 34	NW	10.2		-4.4	2.7	83	10	Str.		* <sup>2</sup>
	Noon	- 20	- 35	NW	9.9	51.2	-5.0	2.5	81	10	Str.		* <sup>0</sup>
	2	- 20	- 35	NW	10.4		-4.8	2.5	80	9	Cicu.		* <sup>1</sup>
	4	- 20	- 35	NW <sup>b</sup> W	9.6	52.7	-4.8	2.6	82	10	Str.		* <sup>0</sup>
	6	- 19	- 35	NW <sup>b</sup> W	10.0		-5.0	2.7	88	10°	Str.		* <sup>2 2</sup>
	8	- 19	- 35	WNW	11.6	54.3	-5.2	2.8	90	10	Str.		* <sup>2</sup>
	10	- 19	- 35	WNW	9.2		-5.2	2.7	87	10	Cist.		* <sup>2</sup>
	Mn.	- 19	- 35	W <sup>b</sup> N	9.0	56.1			88	10	Cist.		* <sup>2</sup>
June 3.	2	83 19	12 35	WNW	8.8				88	10	Cist.		
	4	- 19	- 35	W	9.4	58.2			88	10	Str.		* <sup>2</sup>
	6	- 18	- 35	W <sup>b</sup> N	9.4				85	10	Cist.		
	8	- 18	- 35	WNW	8.6	60.0	-4.2	2.6	78	10	Cust.		
	10	- 18	- 35	WNW	9.4		-4.0	2.6	77	10	Cust.	WNW	
	Noon	- 18	- 35	WNW	8.5	62.7	-3.8	2.7	81	10°	Str.		
	2	- 17	- 34	W	7.6		-3.2	3.0	82	9	Ci. Cust.		
	4	- 17	- 34	W <sup>b</sup> N	8.4	64.2	-3.3	2.9	82	10	Str.		
	6	- 16	- 34	WNW	9.4		-3.0	3.0	83	10	Cust.	WNW	
	8	- 16	- 40	W <sup>b</sup> N	9.6	65.5	-3.4	2.9	82	9	Ci. Cust.	WNW	
	10	- 16	- 42	W <sup>b</sup> N	5.2		-2.4	3.3	85	5	Cicu. Cust. Ci.	WNW	<sup>3</sup>
	Mn.	- 16	- 44	W <sup>b</sup> N	6.0	66.7			0				
June 4.	2	83 15	12 46	W <sup>b</sup> N	4.4				78	7°	Cicu.		
	4	- 15	- 49	W <sup>b</sup> N	4.0	67.6			78	10°	Cist.		
	6	- 15	- 51	W <sup>b</sup> S	4.4				77	10	Cicu.	WNW	
	8	- 14	- 53	SW <sup>b</sup> W	4.7	68.4	-3.5	3.1	89	0			
	10	- 14	- 55	W <sup>b</sup> S	5.0		-4.0	2.9	85	0			
	Noon	- 14	- 57	W <sup>b</sup> S	3.7	69.0	-1.9	3.2	81	0			<sup>4</sup>
	2	- 14	- 59	WSW	4.5		-1.9	3.1	79	0			
	4	- 14	13 1	WSW	4.0	68.9	-2.4	3.2	84	0			
	6	- 14	- 4	SW	3.3		-2.2	3.3	86	0			
	8	- 14	- 4	SW	2.1	69.9	-2.8	3.1	83	0			
	10	- 14	- 4	WSW	4.6		-3.8	3.0	89	0			<sup>5</sup>
	Mn.	- 13	- 4	W <sup>b</sup> S	3.4	70.5			98				<sup>6</sup>
June 5.	2	83 13	13 4	WSW	4.2				97	10			<sup>2</sup> ≡
	4	- 13	- 4	WSW	4.0	70.2			97	10			<sup>2</sup> ≡
	6	- 13	- 3	W	2.7				97	10			<sup>2</sup> ≡
	8	- 13	- 3	SW	3.3	69.7	-5.2	3.0	98	10			<sup>2</sup> ≡
	10	- 13	- 3	SW	2.6		-4.8	3.1	97	10			<sup>2</sup> ≡
	Noon	- 12	- 3	SW <sup>b</sup> S	4.0	69.2	-4.6	3.0	94	10	Str.		<sup>2</sup> ≡
	2	- 12	- 3	SW <sup>b</sup> W	2.4		-3.5	3.1	90	10	Str.		<sup>7</sup>
	4	- 12	- 3	SW	2.2	68.4	-3.0	3.3	90	10	Str.		
	6	- 12	- 3	SW <sup>b</sup> S	2.3		-3.4	3.0	86	10	Str.		
	8	- 12	- 3	SW <sup>b</sup> S	2.0	67.6	-3.2	3.0	82	10	Str.		
	10	- 11	- 3	SW <sup>b</sup> S	2.0		-3.8	3.0	89	10	Str.		
	Mn.	- 11	- 3	SW <sup>b</sup> S	2.7	67.2			79	10	Str.		

<sup>1</sup> 1.30 p. m. Str. \*<sup>2</sup>. <sup>2</sup> Thick. <sup>3</sup> Clearing up. Blue sky on the horizon over E between SE and NNW.  
<sup>4</sup> 10 a. m., Noon. A few ci. <sup>5</sup> While the observation was being taken, thick ≡ came rolling in from WSW, and in the course of 5 min. the sky was overcast. Some cicu. were seen on the horizon in WNW and W, and thence over WSW to ESE there was a thick bank on the horizon. This was seen already at 7 p. m. <sup>6</sup> Thick.  
<sup>7</sup> Blue sky between NW and S.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 6.	2	83° 11'	13° 2'	SSW	1.9				78	10	Str.		
	4	- 11	- 2		0	766.8			79	10	Str.		
	6	- 11	- 2		0				78	10	Str.		
	8	- 10	- 2		0	67.2	-3.9	2.8	82	10	Str.		
	10	- 10	- 2	NNW	2.0		-1.9	3.3	83	10	Str.		
	Noon	- 10	- 2	NNW	1.5	68.0	-2.6	3.0	80	10	Str.		
	2	- 10	- 2	N			-3.3	3.1	87	10	Str.		1
	4	- 10	- 2	NNE	3.6	67.9	-3.8	3.0	89	10	Str.		
	6	- 10	- 2	N	3.4		-3.6	2.9	86	10	Str.		
	8	- 9	- 2	N <sup>b</sup> W	5.2	67.9	-5.0	2.6	84	10	Str.		
	10	- 9	- 1	N	5.2		-5.4	2.8	93	10	Str.		* <sup>2</sup>
	Mn.	- 9	- 1	N	5.2	68.2			94	10	Str.		
June 7.	2	83 9	13 1	N	6.2				97	10	Str.		
	4	- 9	- 1	N	6.0	68.4			94	10°	Cist.		≡ <sup>o</sup>
	6	- 9	- 1	NE <sup>b</sup> N	6.1				93	10	Cist.		
	8	- 9	- 1	NE <sup>b</sup> N	6.2	69.1	-6.1	2.6	94	9	Ci. Cust.		⌈ <sup>3</sup>
	10	- 9	12 50	N <sup>b</sup> E	7.2		-5.0	2.9	93	3°	Cist.	NNE	
	Noon	- 9	- 57	N	5.0	69.6	-4.6	3.1	96	0			
	2	- 8	- 56	N	7.6		-3.8	3.1	92	10	Str.		4
	4	- 8	- 54	N <sup>b</sup> E	7.6	70.0	-3.2	3.2	90	10	Str.		
	6	- 8	- 52	N <sup>b</sup> E	5.8		-2.6	3.4	90	10	Str.		
	8	- 8	- 51	N <sup>b</sup> E	5.8	70.0	-4.0	2.9	88	10	Str.		
	10	- 7	- 49	N <sup>b</sup> E	5.2		-4.4	3.0	91	10	Str.		
	Mn.	- 7	- 47	N <sup>b</sup> E	4.8	70.0			91	10	Str.		
June 8.	2	83 7	12 45	N <sup>b</sup> E	4.3				91	10	Str.		5
	4	- 6	- 44	N <sup>b</sup> W	4.6	69.7			89	10	Str.		
	6	- 6	- 42	NW	3.8				94	10	Str.		
	8	- 6	- 40	NW <sup>b</sup> N	3.9	68.9	-3.8	3.1	92	10°			
	10	- 6	- 39	NW <sup>b</sup> N	4.8		-3.2	3.3	92	3°	Ci.		
	Noon	- 5	- 37	NW <sup>b</sup> N	4.8	69.0	-3.3	3.2	89	8°	Ci.		6
	2	- 5	- 35	NW <sup>b</sup> N	5.8		-3.4	3.1	89	3°			
	4	- 5	- 34	NW <sup>b</sup> N	5.6	68.6	-3.6	3.0	88	10°			
	6	- 4	- 32	NW <sup>b</sup> N	5.6		-4.1	2.9	87	10°			
	8	- 4	- 30	NW <sup>b</sup> N	5.2	68.4	-4.2	2.9	86	10°			
	10	- 4	- 29	NNW	5.7		-4.7	2.7	86	3°			
	Mn.	- 3	- 27	NW <sup>b</sup> N	4.2	68.3			89	0			
June 9.	2	83 3	12 25	NW <sup>b</sup> N	5.0				91	0			
	4	- 3	- 23	NW <sup>b</sup> N	4.2	68.3			93	0			
	6	- 2	- 22	NW	3.9				94	0			
	8	- 2	- 20	NW <sup>b</sup> W	4.0	68.0	-4.2	3.0	91	0			
	10	- 2	- 18	NW	4.0		-3.3	3.2	89	0			
	Noon	- 1	- 17	NW	4.0	67.6	-2.3	3.2	91	5°	Ci.	NW	
	2	- 1	- 15	NW	3.9		-2.2	3.3	86	7°	Ci.		
	4	- 1	- 13	NW	2.9	67.3	-2.0	3.3	84	5°	Ci.		
	6	- 1	- 12	NNW	3.2		-1.3	3.6	86	10°	Ci.		
	8	- 1	- 12	NNW	2.6	67.1	-1.6	3.3	82	10°	Ci. Cust.	NNE	
	10	- 1	- 12	N	3.0		-4.2	3.2	96	10			≡ <sup>7</sup>
	Mn	- 1	- 12	NE	1.3	67.1			97	10			≡
June 10.	2	83 1	12 12		0				91	8			≡ <sup>o</sup>
	4	- 1	- 12		0	67.0			83	0			8
	6	- 1	- 12		0				84	0			
	8	- 1	- 12	N		66.8	-3.8	2.9	85	0			
	10	- 1	- 12	NW			-2.9	3.0	83	0			
	Noon	- 1	- 12	NNW	1.6	66.9	-2.7	3.2	85	0			

<sup>1</sup> Blue sky from NW over NE to E. <sup>2</sup> Fine granulous snow. <sup>3</sup> Varying clouds. <sup>4</sup> Ice condensed on the instruments. <sup>5</sup> Continuous blue sky from N over E to S where it is particularly deep in colour, and extends upwards in the sky. <sup>6</sup> ⊕ with tangent bow and mock-suns. <sup>7</sup> 9.30 p. m. ≡ came down from N. <sup>8</sup> ≡ on the horizon.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 10.	2	83° 1'	12° 12'	NNW			-1.7	3.4	84	0			1
	4	- 1	- 12	NW		766.6	-1.7	3.1	78	0			
	6	- 1	- 12	WNW			-1.0	3.3	77	0			
	8	- 1	- 12	WNW		66.2	-1.3	3.3	80	0			
	10	- 1	- 12	WNW			-2.3	3.1	81	0			
	Mn.	- 0	- 12		0	65.8			95				
June 11.	2	83 0	12 12		0				82	5°	Ci.		2
	4	- 0	- 12		0	66.0			87	0			
	6	- 0	- 12	SSW	1.4				87				3
	8	- 0	- 12	SSW	1.5	66.3	-3.5	3.0	89	0			
	10	- 0	- 12	SW	2.3		-4.0	3.1	91	8°			
	Noon	- 0	- 12	SW <sup>b</sup> S	3.6	67.0	-4.0	3.1	93	8°			4
	2	- 0	- 12	SW <sup>b</sup> W	2.9		-4.6	3.0	92	8°	Cist.		
	4	- 0	- 11	SW <sup>b</sup> W	3.3	67.4	-3.5	3.1	90	7°	Cist.		5
	6	- 0	- 11	WSW	3.4		-4.8	2.9	90	10°	Str.		
	8	- 0	- 11	W	3.3	67.9	-4.3	2.9	88	10	Str.		6
	10	- 0	- 11	SW	3.5		-4.2	2.9	88	10	Str.		
	Mn.	- 0	- 11	SW	3.0	68.4			97	0			7
	2	83 0	12 11	SSW	1.9				94	0			
June 12.	4	- 0	- 11	SW	3.0	68.0			94	0			8
	6	- 0	- 11	S <sup>b</sup> W	3.1				94	10	Str.		
	8	- 0	- 11	SSW	3.4	68.1	-4.6	2.8	88	10	Str.		9
	10	- 0	- 11	SSW	3.0		-4.0	2.9	85	10	Str.		
	Noon	- 0	- 11	SSE	3.6	68.1	-1.6	3.4	84	10	Str.		10
	2	- 0	- 11	S	4.3		-1.2	3.6	86	10	Str.		
	4	82 59	- 11	S <sup>b</sup> E	5.1	67.5	-1.2	3.8	91	10	Str.		11
	6	- 59	- 11	SSE	3.7		-0.8	4.1	93	10	Str.		
	8	- 59	- 11	S	3.4	67.0	-0.5	4.1	92	10	Str.		12
	10	- 59	- 11	S <sup>b</sup> W	4.3		-0.7	4.1	93	10	Cust.		
	Mn.	- 59	- 11	SW	3.1	66.7			89	10	Str.		13
	2	82 59	12 11	SW	4.8				80	10	Cust.		
	4	- 59	- 11	SW <sup>b</sup> S	4.4	66.6			86	10	Str.		14
	6	- 59	- 11	S <sup>b</sup> W	5.4				91	10	Str.		
June 13.	8	- 59	- 11	S <sup>b</sup> W	6.2	66.7	-2.5	3.4	90	10	Cist.		15
	10	- 59	- 11	SSW	6.5		-2.3	3.3	86	10	Str.		
	Noon	- 59	- 11	SSW	5.1	66.7	-0.6	3.9	89	10	Ci. Cust.		16
	2	- 59	- 10	SW	5.4		0.0	3.9	86	10	Cust.		
	4	- 59	- 10	SW	6.6	66.6	-0.7	3.6	83	10	Str.		17
	6	- 59	- 10	WSW	4.4		-0.6	3.4	77	10	Str.		
	8	- 59	- 9	SSW	4.2	66.6	-1.3	3.9	94	10°	Str.		18
	10	- 59	- 9	SSW	5.2		-0.9	3.8	89	10	Str.		
	Mn.	- 59	- 8	S <sup>b</sup> W	5.0	66.7			90	10	Str.		19
	2	82 59	12 8	SW <sup>b</sup> S	5.8				83	10	Str.		
	4	- 59	- 7	SSW	3.4	66.8			95	10	Str.		20
	6	- 59	- 7	S <sup>b</sup> W	4.5				92	10	Str.		
	8	- 59	- 7	S <sup>b</sup> W	4.0	66.6	0.3	4.4	95	10	Str.		21
	10	- 59	- 6	SW <sup>b</sup> S	4.1		0.6	4.3	91	10	Str.		
June 14.	Noon	- 59	- 6	SW <sup>b</sup> S	3.8	66.6	0.8	4.4	91	10	Str.		22
	2	- 59	- 5	SSW	4.5		0.5	4.1	87	10	Str.		
	4	- 59	- 5	S	2.4	66.5	0.8	4.1	86	10	Str.		23
	6	- 59	- 4	S	2.8		0.4	4.3	91	10	Str.		

<sup>1</sup> A few ci. <sup>2</sup> ≡ round the horizon, most in ESE and SSE. <sup>3</sup> ≡ came up in patches from SSW. <sup>4</sup> ≡ now and then this afternoon. <sup>5</sup> ≡ came from ESE. <sup>6</sup> Some patches of ≡ now and then. A broad and a narrow tangent ring (sun). <sup>7</sup> 2 bits of the same visible towards the horizon. <sup>8</sup> 5 p. m. Moved the screen to a place athwart of the ship. The vessel moved to a new place today. <sup>9</sup> This afternoon the tent over the ship was taken away. <sup>10</sup> 9.30 a. m. Granulous \*°. <sup>11</sup> Blue sky in SW.

1896. Day.	H l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 14.	8	82° 59'	12° 4'	SE <sup>b</sup> S	2.4	766.1	0.1	4.3	94	10	Str.		
	10	- 59	- 4	SE <sup>b</sup> S	2.4		0.0	4.3	93	10	Str.		
	12.15	- 59	- 3	SE <sup>b</sup> E	3.1	65.7	-0.8	4.1	94	10	Str.		* <sup>o</sup> 1
June 15.	2	82 59	12 3	SE	3.5		-0.9			10	Str.		
	4	- 59	- 2	SE	5.0	65.4	-1.8	3.4	85	10	Str.		* <sup>o</sup>
	6	- 59	- 2	SE	4.8		-2.2	3.4	87	10	Str.		
	8.15	- 59	- 1	SE <sup>b</sup> S	5.0	65.0	-2.3	3.4	87	10	Str.		⊙ * <sup>2</sup>
	10	- 59	- 1	SE	4.3		-2.3	3.4	87	10	Str.		
	Noon	- 59	- 1	SE	4.6	64.7	-2.3	3.4	87	10	Str.		* <sup>o</sup>
	2	- 59	- 0	SE	4.3		-2.3	3.5	89	10	Str.		
	4	- 59	- 0	SE <sup>b</sup> E	4.6	64.1	-2.2	3.4	87	10	Str.		* <sup>o</sup> 4
	6	- 59	11 59	E <sup>b</sup> S	4.2		-2.4	3.3	87	10	Str.		
	8	- 59	- 59	E <sup>b</sup> S	4.3	63.5	-2.5	3.3	88	10	Str.		* <sup>o</sup>
	10	- 59	- 58	E <sup>b</sup> S	4.4		-2.4	3.4	90	10	Str.		* <sup>o</sup> 5
	Mn.	- 59	- 58	E <sup>b</sup> S	4.6	62.9			87	10	Str.		
June 16.	2	82 59	12 58	E	5.7				91	10	Str.		
	4	- 59	- 57	E	4.0	62.2			90	10	Str.		
	6	- 59	- 57	E <sup>b</sup> N	5.0				89	10	Str.		
	8	- 59	- 56	E <sup>b</sup> N	4.4	62.1	-2.0	3.4	86	10	Str.		
	10	- 59	- 56	E <sup>b</sup> N	5.3		-2.4	3.3	87	10	Str.		
	Noon	- 59	- 55	ENE	4.6	62.3	-1.8	3.4	85	10	Str.		
	2	- 59	- 55	E	4.8		-0.8	3.6	83	10	Cist.		* <sup>o</sup>
	4	- 59	- 53	E	4.2	62.4	-1.7	3.5	87	10	Str.		
	6	- 59	- 52	E <sup>b</sup> S	4.6		-1.8	3.7	92	10	Str.		⊙ * <sup>6</sup>
	8	- 59	- 54	E	3.8	62.5	-2.6	3.4	89	10	Ci. Cust.		* <sup>o</sup> 3
	10	- 59	- 53	E	3.4		-3.8	3.4	98	10	Cist.		⊙ * <sup>o</sup> 3
	Mn.	- 59	- 51	E	3.9	63.9			100	10	Cist.		⊙ * <sup>o</sup> 3
June 17.	2	82 59	11 50	E <sup>b</sup> N	3.5				95	10	Cist.		⊙ * <sup>o</sup> 3
	4	- 58	- 48	E	2.7	62.9			98	10	Cist.		⊙ * <sup>o</sup> 3
	6	- 58	- 46	E	2.3				95	10	Cist.		⊙ * <sup>o</sup> 3
	8	- 58	- 45	NE <sup>b</sup> E	2.4	62.9	-3.5	3.2	91	10	Ci. Cust.	E	⊙ * <sup>o</sup> 3
	10	- 58	- 43	E	3.6		-1.6	3.3	80	10	Str.		⊙ * <sup>o</sup> 3
	Noon	- 57	- 42	E	3.4	63.1	-3.7	3.0	90	10°	Ci. Cust.		⊙ * <sup>o</sup> 3
	2	- 57	- 41	SE <sup>b</sup> E	3.1		-2.6	3.0	82	8°	Ci. Cust.	SaSSW	⊙ * <sup>o</sup> 3
	4	- 57	- 39	E	3.0	62.6	-3.2	3.0	86	10	Cist.		⊙ * <sup>o</sup> 3
	6	- 57	- 38	E	2.3		-2.4	3.3	85	10°	Cicu.		⊙ * <sup>o</sup> 3
	8	- 57	- 38	ESE	2.1	62.2	-3.1	3.1	87	10	Ci. Cust.		⊙ * <sup>o</sup> 3
	10	- 57	- 38	ESE	2.2		-3.5	3.1	90	10	Ci. Cust.		⊙ * <sup>o</sup> 3
	Mn.	- 57	- 38	SSW	1.6	61.8			80	10	Ci. Cust.		⊙ * <sup>o</sup> 3
June 18.	2	82 56	11 38	SE	2.0				92	10	Str.		
	4	- 56	- 38	SSE	2.2	61.6			85	10	Str.		
	6	- 56	- 37	SW <sup>b</sup> S	1.9				80	10	Str.		
	8	- 56	- 37	SSE	1.7	61.3	-2.0	3.1	80	10	Str.		
	10	- 56	- 37	SSW	1.6		-1.6	3.0	75	10	Cust.	WSW	
	Noon	- 56	- 37	SSW	0.0	61.7	-2.1	3.3	83	10	Cust.		
	2	- 56	- 37	SW	2.6		-0.1	3.4	77	10°	Cicu. Cist.	WSW	
	4	- 56	- 36	SSW	2.1	61.5	-1.2	3.4	80	10	Cust.	SW	
	6	- 56	- 35	SW	2.2		0.0	3.7	80	10	Ci. Cust.	SW	
	8	- 55	- 38	SW <sup>b</sup> S	2.0	61.3	-1.4	3.6	87	10	Str.		
	10	- 55	- 38	WSW	3.5		-2.2	3.5	90	10	Ci. Cust.		
	Mn.	- 55	- 39	SSW	3.6	61.8			91	10	Str.		

<sup>1</sup> After reading off, took the screen, the instruments, and everything relating to meteorology on board, as an attempt is to be made to move the vessel through the lane. <sup>2</sup> ⊙. <sup>3</sup> 1 p. m. \*. Rod-shaped grains, about 2 mm. long and circular transverse section, as far as one could see with a magnifying-glass consisting of small grains united, also other unevenly formed grains. <sup>4</sup> 3.30 p. m. The screen was placed on its old place on the ice, and the instruments hung up. <sup>5</sup> Granulose snow. <sup>6</sup> 7.30 p. m. \*. <sup>7</sup> Blue sky in SE and SSE.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 19.	2	82° 55'	11° 40'	SSW	3.2				94	10	Str.		
	4	- 55	- 40	SSW	3.4	761.4			95	10	Cist.		
	6	- 55	- 41	SbW	3.2				94	10	Str.		
	8	- 55	- 42	SbW	3.6	61.4	-1.0	3.9	92	10	Str.		
	10	- 55	- 42	S	4.0		-0.8	3.9	90	10	Str.		
	Noon	- 55	- 43	S	3.8	61.2	0.1	4.0	87	10	Cust.		
	2	- 55	- 43	SbW	3.6		0.2	4.4	95	10	Cu.	WSW	
	4	- 55	- 44	SSE	3.1	60.8	0.5	4.5	95	10	Cu.	SSW	
	6	- 55	- 44	SbE	4.1		-0.3	4.4	95	10	Ci. Cust.		
	8	- 55	- 44	S	3.8	60.4	-0.5	4.3	99	10			≡ <sup>1</sup>
	10	- 55	- 44	SEbE	3.4		-1.4	4.1	98	10			≡ <sup>1</sup>
	Mn.	- 55	- 45	SEbE	3.3	59.5			95	10	Cicu.		≡ <sup>1</sup>
June 20.	2	82 55	11 45	SE	5.5				97	10	Cist.		
	4	- 55	- 46	SEbE	3.9	57.8			98	10	Str.		≡
	6	- 55	- 47	SE	4.7				94	10	Str.		≡
	8	- 55	- 47	E	3.6	56.9	1.1	4.6	93	10	Str.		≡
	10	- 55	- 48	ESE	2.9		2.0	4.9	93	10			≡
	Noon	- 55	- 49	SW	2.4	56.5	2.7	4.9	88	10			≡
	2	- 55	- 49	SWbW	2.4		2.4	4.8	88	10°	Str.		≡
	4	- 55	- 50	WSW		56.5	3.6	4.8	82	10°	Str.		≡
	6	- 55	- 51	WSW			3.7	5.0	86	10			≡
	8	- 55	- 51		0	56.7	2.6	4.7	86	10			≡
	10	- 55	- 52		0		1.4	4.8	95	10			≡
	Mn.	- 55	- 53	SbW	1.8	56.7			96	10			≡
June 21.	1.50	82 55	11 53	SbW	2.7				98				⊙ ≡ <sup>2</sup>
	4	- 55	- 54	SWbS	2.4	56.7			98	10	Str.		⊙ ≡
	6	- 55	- 55	S	1.8				97	10			⊙ ≡
	8	- 55	- 55	SbW	2.1	57.0	1.0	4.8	99	10			⊙ ≡
	10	- 55	- 56	SbW	2.3		1.0	4.8	98	10			⊙ ≡ <sup>3</sup>
	Noon	- 55	- 57	SbW	3.3	57.3	1.5	4.8	95	10°	Cist.		⊙ <sup>3</sup>
	2	- 55	- 57	SbW	2.6		1.2	4.9	97	10			⊙ <sup>3</sup>
	4	- 55	- 58	SbE	2.0	57.5	1.3	4.8	96	10			≡
	6	- 55	- 59	SE	1.5		1.5	4.8	94	10	Str.		≡
	8	- 55	- 59	SE	2.2	57.4	1.5	4.8	94	10	Str.		⊙ <sup>4</sup>
	10	- 55	12 0	SE	2.2		1.2	4.7	94	10	Str.		⊙ <sup>4</sup>
	Mn.	- 55	- 1	SSE	1.3	57.3			95	10	Str.		⊙ <sup>4</sup>
June 22.	2	82 55	12 1	SSE	1.3				93	10	Str.		
	4	- 55	- 2	SWbS	2.0	57.5			93	10	Str.		≡
	6	- 55	- 3	WbS	2.5				96	10	Str.		≡
	8	- 55	- 3	WSW	1.7	58.3	2.1	5.0	93	10	Cust.	WSWaW	≡
	10	- 55	- 4	WSW	2.0		2.8	5.0	89	10			*°
	Noon	- 55	- 4	SWbW	2.8	59.1	2.6	4.9	90	9°	Cicu.		*°
	2	- 55	- 5	SW	3.3		2.6	4.8	87	10°	Cist.		≡
	4	- 55	- 6	SWbW	4.5	60.4	0.3	4.4	95	10			≡
	6	- 55	- 6	SW	4.0		-0.2	4.4	99	10			≡
	8	- 55	- 7	SSW	3.5	60.7	-0.3	4.3	96	10			≡
	10	- 55	- 8	SSW	4.8				98	10	Str.		≡
	Mn.	- 55	- 8	SbW	3.1	60.4			97	10	Str.		≡
June 23.	2	82 55	12 9	S	3.4				94	10	Str.		
	4	- 55	- 10	SSE	5.0	60.3			98	10	Str.		
	6	- 55	- 10	S	5.2				97	10	Str.		*°
	8	- 55	- 11	SbW	5.2	60.2	0.9	4.7	97	10	Str.		
	10	- 55	- 12	SbW	4.8		1.0	4.7	95	10	Str.		
	Noon	- 55	- 12	SSW	4.8	60.6	1.1	4.6	93	10	Str.		

<sup>1</sup> Some precipitation on the rigging. <sup>2</sup> 3 a. m. <sup>3</sup> Pool of fresh water on the ice. <sup>4</sup> Between 8 and 10 p. m. <sup>5</sup> now and then; at 10 p. m. more constant.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 23.	2	82° 55'	12° 13'	SbW	5.3		1.2	4.6	92	10	Str.		1
	4	- 55	- 14	SSW	5.0	760.8	1.3	4.5	90	10	Cust.		
	6	- 55	- 14	SSW	5.4		0.8	4.7	96	10	Str.		
	8	- 55	- 15	SSW	5.8	61.4	0.7	4.7	97	10	Ci. Cust.		
	10	- 55	- 16	SbW	3.4		0.9	4.5	91	10	Str.		
	Mn.	- 55	- 16	SbE	3.6	61.4			88	10	Ci. Cust.		
June 24.	2	82 55	12 17	SSE	3.5				96	10	Ci. Cust.		SSE
	4	- 55	- 18	SE	3.2	61.6			89	10	Cist.		
	6	- 55	- 18	SE	3.2				90	0			
	8	- 55	- 19	SSE	3.8	61.3	1.1	4.6	93	10°	Str.		
	10	- 55	- 19	SSE	3.0		0.8	4.7	96	10	Str.		
	Noon	- 55	- 19	SSE	3.0	61.1	0.7	4.6	95	10°	Str.		
	2	- 55	- 19	SEbE	2.6		0.5	4.6	97	10	Cicu. Str.		
	4	- 55	- 19	SSE	2.0	61.0	1.1	4.8	96	9	Cicu. Cist. Str.		
	6	- 55	- 20	S	1.8		0.5	4.7	98	10	Str.		
	8	- 55	- 20	S	2.4	60.7	0.8	4.7	97	10	Str.		
	10	- 55	- 21	S	2.4		0.7	4.7	98	10	Str.		
	Mn.	- 55	- 21	SbW	2.6	60.2			96	10	Str.		
June 25.	2	82 55	12 22	SWbW	2.4				95	10	Cist.		WNW
	4	- 55	- 22	SW	4.0	50.9			91	10	Str.		
	6	- 55	- 22	SWbW	2.0				90	10	Cist.		
	8.15	- 55	- 23	WbS	2.4	59.9	0.1	4.0	88	8	Cicu. Cist.		
	10	- 55	- 23	W	2.2		0.3	4.0	86	10°	Cist.		
	Noon	- 55	- 24	WNW	2.5	59.7	0.9	4.1	82	10°	Cist.		
	2	- 55	- 24	W	2.2		-0.4	4.0	91	6	Cicu.		
	4	- 55	- 24	W	1.4	59.5	-0.7	4.2	96	10	Cicu.		
	6	- 55	- 25	WSW	2.4		0.4	4.3	91	10	Ci. Cust.		
	8	- 55	- 25	SSW	1.6	59.0	0.5	4.1	87	10	Cicu. Cust.		
	10	- 55	- 26		0		1.4	4.5	89	5	Ci.		
	Mn.	- 55	- 27	SWbW	1.8	58.5			92	0			
June 26.	2	82 55	12 28	WSW	1.8				96	0			WNW
	4	- 55	- 29	WSW	1.6	57.8			94	2	Cist.		
	6	- 55	- 30	WSW	2.1				96	10	Str.		
	8	- 55	- 31	WSW	2.4	57.2	-0.8	4.1	94	10	Str.		
	10	- 55	- 32	WNW	2.6		-0.3	4.2	94	10	Str.		
	Noon	- 55	- 33	WSW	1.7	56.8	1.4	4.0	79	10	Str.		
	2	- 55	- 34	WSW	2.2		0.7	4.0	83	10	Ci. Cust.		
	4	- 55	- 35	WbS	3.8	56.3	-0.9	3.6	85	10	Ci. Cust.		
	6	- 55	- 36	SWbW	2.4		-1.0	3.8	88	10	Cist.		
	8	- 55	- 37	SWbS	3.5	56.2	-1.6	3.7	92	10	Ci. Cust.		
	10	- 55	- 38	SWbS	4.4		-1.2	3.9	93	10	Ci. Cust.		
	Mn.	- 55	- 39	SbW	2.2	56.5			98	10	Ci. Cust.		
June 27.	2	82 55	12 40	WSW	0.0				91	10	Str.		WNW
	4	- 55	- 41	SWbW	2.3	56.4			93	10	Str.		
	6	- 55	- 42	SW	3.5				85	10	Cust.		
	8.15	- 55	- 43	SSW	2.9	57.0	0.6	4.0	84	10	Ci. Cust.		
	10	- 55	- 44	SbW	2.0		-0.7	3.6	84	10	Ci. Cust.		
	Noon	- 55	- 45	SWbS	3.7	57.6	-0.1	3.8	84	10	Ci. Cust.		
	2.15	- 55	- 46	S	2.7		1.5	4.1	80	10	Ci. Cust.		
	4	- 55	- 47	S	3.1	58.1	0.0	4.3	95	10	Ci. Cust.		
	6	- 55	- 48	SbE	1.4		0.4	3.9	82	10	Cist.		
	8	- 55	- 47	SSW	1.6	58.7	0.2	4.5	96	10	Cist.		
	10	- 55	- 47	SEbE	3.2		0.6	4.6	97	10	Ci. Cust.		
	Mn.	- 55	- 46	SE	2.2	59.5	0.0			10	Str.		

<sup>1</sup> Blue sky in SSW. <sup>2</sup> 10.30 p. m. \*. <sup>3</sup> 11.30 p. m. \*, ☉\*. <sup>4</sup> 3.30 p. m. \*<sup>2</sup> of only short duration. <sup>5</sup> ☉\*°.  
<sup>6</sup> 7 p. m., \*°°. <sup>7</sup> 9 p. m., \*°°. <sup>8</sup> The instruments taken on board.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
June 28.	2	82° 55'	12° 45'	SE <sup>b</sup> E	2.8		0.2			10	Str.		☉☉☉☉ <sup>1</sup>
	4	- 55	- 45	SE <sup>b</sup> E	2.6	759.9	0.6	4.6	97	10	Str.		☉☉☉☉
	6	- 55	- 44	SE <sup>b</sup> E	2.8		0.3	4.5	97	10	Str.		☉☉☉☉
	8.15	- 55	- 43	SE <sup>b</sup> E	1.6	59.9	0.5	4.6	97	10	Str.		☉☉☉☉
	10	- 55	- 43	SE	1.8		0.7	4.5	93	10	Ci. Cust.		☉☉☉☉
	Noon	- 55	- 42	E <sup>b</sup> S	2.5	60.4	0.5	4.4	92	10	Ci. Cust.		*°
	2	- 55	- 42	E <sup>b</sup> S	3.4		0.8	4.1	86	10	Ci. Cust.		*°
	4.15	- 55	- 41	ENE	4.1	60.4	0.0	4.3	95	10	Ci. Cust.		*
	6	- 55	- 40	NE <sup>b</sup> E	4.7		-0.3	3.9	88	10	Ci. Cust.		*
	8	- 55	- 40	NE <sup>b</sup> E	5.7	60.2	-0.7	4.0	92	10	Str.		2
	10	- 55	- 39	NE <sup>b</sup> E	5.0		-0.4	4.3	97	10	Str.		*
	Mn.	- 55	- 38	E <sup>b</sup> N	4.2	60.2			95	10	Str.		*
June 29.	2	82 55	12 38	E <sup>b</sup> N	4.6		-1.0	4.1	97	10	Str.		*°
	4	- 55	- 37	ENE	5.0	60.3	-1.3	4.0	97	10	Str.		*
	6	- 55	- 37	E <sup>b</sup> N	4.6		-1.7	4.0	99	10	Str.		
	8	- 55	- 36	E <sup>b</sup> N	5.6	60.4	-0.7	4.4	100	10	Str.		
	10	- 55	- 35	E <sup>b</sup> N	5.8		-0.3	4.5	100	10	Str.		☉☉☉☉
	Noon	- 55	- 35	E <sup>b</sup> S	6.0	60.9	-0.7	4.1	95		Ci. Cust.		☉☉☉☉
	2	- 55	- 34	E <sup>b</sup> S	5.4		-0.8	4.2	99	10°	Ci. Cust.		d
	4	- 55	- 33	E <sup>b</sup> S	5.4	60.9	-0.9	4.2	99	10			d, ☉☉☉☉
	6	- 55	- 32	E	5.4		-0.9	4.3	100	10			☉☉☉☉
	8	- 55	- 30	E	5.6	61.3	-1.4	4.1	100	10			☉☉☉☉
	10	- 55	- 27	E	6.4		-1.2	4.2	100	10			☉☉☉☉
	Mn.	- 55	- 25	E	5.7	61.5	-1.8	4.0	100	10			☉☉☉☉
June 30.	2	82 56	12 23	E <sup>b</sup> S	6.8		-1.8	4.0	100	10			☉☉☉☉
	4	- 56	- 20	ESE	7.0	61.5	-0.7	4.4	100	10	Str.		☉☉☉☉
	6	- 56	- 18	E	6.3		-0.8	4.3	100	10	Str.		☉☉☉☉
	8	- 56	- 16	E	6.6	60.9	-0.3	4.4	98	10	Str.		d
	10	- 56	- 13	E	5.6		-0.7	4.3	98	10	Str.		
	Noon	- 56	- 11	E <sup>b</sup> S	6.9	61.0	-0.6	4.3	99	10	Str.		
	2	- 56	- 9	E	7.2		-0.4	4.3	96	10	Str.		
	4	- 56	- 6	E <sup>b</sup> N	6.4	60.2	-1.1	4.2	99	10	Str.		☉☉☉☉
	6	- 57	- 4	ENE	6.5		-1.6	4.0	99	10	Str.		☉☉☉☉
	8	- 57	- 2	NE <sup>b</sup> E	5.6	59.5	-1.7	4.0	98	10	Str.		☉☉☉☉
	10	- 57	11 59	NE <sup>b</sup> E	6.2		-1.8	3.9	98	10	Str.		☉☉☉☉
	Mn.	- 57	- 57	NE <sup>b</sup> E	5.9		-2.0	3.8	97	10	Str.		☉☉☉☉
July 1.	2	82 57	11 55	NE <sup>b</sup> E	5.3		-1.2	4.1	99	10	Str.		☉☉☉☉
	4	- 57	- 52	NE <sup>b</sup> E	4.6	57.2	-0.8	4.3	100	10	Str.		
	6	- 57	- 50	ENE	2.2		-0.2	4.4	99	10	Str.		
	8	- 57	- 48	W		56.7	0.2	4.4	95	10	Cust.		
	10	- 58	- 45	SW <sup>b</sup> W	1.7		0.2	4.4	95	10	Cust.		
	Noon	- 58	- 43	SW <sup>b</sup> W	2.6	57.2	0.4	4.6	98	10°	Str.		☉☉☉☉
	2	- 58	- 41	SW	1.6		-0.3	4.4	99	10	Str.		d
	4	- 58	- 38	W <sup>b</sup> S	3.3	57.5	0.0	4.3	92	10	Str.		
	6	- 58	- 38	W <sup>b</sup> S	3.5		-1.5	4.1	100	10			d
	8	- 58	- 39	W	4.1	57.9	-1.8	3.8	95	4	Ci. Cust.		
	10	- 58	- 41	W <sup>b</sup> S	3.2		-2.1	3.7	95	10	Str.		
	Mn.	- 58	- 42	W	2.6	58.5	-1.3	3.8	91	10	Ci. Cust.		
July 2.	2	82 58	11 44	W	2.4		-0.9	4.0	94	10	Ci. Cust.		
	4	- 58	- 45	SW <sup>b</sup> W	3.2	58.6	-0.6	4.3	98	10°	Ci. Cust.		
	6	- 58	- 47	SW <sup>b</sup> W	2.2		-0.3	4.4	99	10	Str.		*°
	8	- 58	- 48	SW <sup>b</sup> W	4.3	59.5	-0.2	4.4	97	10	Str.		
	10	- 58	- 50	SW <sup>b</sup> W	3.5		0.2	4.5	96	9	Cicu. Cust.	W	
	Noon	- 58	- 51	SW <sup>b</sup> W	3.9	60.4	0.1	4.5	98	10	Ci. Cust.		*°

<sup>1</sup> Continue the meteorological observations for the present according to ship's custom as the ice is in motion, and we are ready to start whenever an opportunity occurs. <sup>2</sup> Much blue sky over ESE to WSW. <sup>3</sup> 9 p. m. ☉\*. <sup>4</sup> 11 p. m. ☉\*.



1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 2.	2	82° 58'	11° 53'	SW <sup>b</sup> S	4.6		-0.2	4.4	96	10	Cu.	W	*° *° d ≡ *° *° *°
	4	- 58	- 54	S <sup>b</sup> E	3.6	761.7	-0.4	4.3	96	10	Str.		
	6	- 58	- 56	SSW	4.7		-0.4	4.5	100	10	Str.		
	8	- 58	- 57	S <sup>b</sup> W	4.0	60.8	0.0	4.5	99	10	Str.		
	10	- 58	- 59	S	3.7		0.1	4.5	98	10	Str.		
	Mn.	- 58	12 0	S	5.0	60.2	0.4	4.7	100	10	Str.		
July 3.	2	82 58	12 2	S <sup>b</sup> E	5.3		0.5	4.8	100	10	Str.		*° *° *° *° *° *° *° ≡ ≡ d ≡
	4	- 58	- 3	S	5.4	58.7	0.5	4.6	97	10	Str.		
	6	- 58	- 5	S <sup>b</sup> E	6.6		0.3	4.5	97	10	Str.		
	8	- 58	- 6	S <sup>b</sup> E	6.6	57.1	0.6	4.8	100	10	Str.		
	10	- 58	- 8	S <sup>b</sup> E	7.0		0.3	4.7	100	10	Str.		
	Noon	- 58	- 9	SW <sup>b</sup> S	5.5	55.9	0.8	4.8	98	10	Str.		
	2	- 58	- 11	SW <sup>b</sup> W	4.2		0.3	4.6	99	10	Str.		
	4	- 58	- 12	SW	3.2	56.1	0.2	4.7	100	10	Str.		
	6	- 58	- 14	WSW	4.1		0.2	4.7	100	10	Str.		
	8	- 58	- 15	W <sup>b</sup> S	4.1	56.9	0.1	4.4	97	10	Str.		
	10	- 58	- 17	WSW	4.6		0.1	4.4	96	10	Str.		
	Mn.	- 58	- 18	W <sup>b</sup> S	6.0	57.5	-1.5	4.1	100	10	Str.		
July 4.	2	82 58	12 20	WSW	5.0		-0.6	4.3	99	10	Str.		*°  *° d *° *° *° *° *° *° *° *°
	4	- 58	- 21	SSW	4.2	57.7	0.8	4.7	97	10	Str.		
	6	- 58	- 23	SSW	6.4		-0.4	4.3	88	10	Str.		
	8	- 58	- 24	SW <sup>b</sup> S	4.6	57.0	-0.4	3.9	89	10	Cust.		
	10	- 58	- 26	WSW	6.6		0.8	4.3	89	10	Cicu.		
	Noon	- 58	- 27	SW	5.5	57.1	0.6	4.7	98	10	Str.		
	2	- 59	- 28	SW <sup>b</sup> S	4.7		0.9	4.3	87	10	Cicu. Ci. Cust.	WSW	
	4	- 59	- 28	SW <sup>b</sup> S	5.8	57.4	0.4	4.5	97	10	Str.		
	6	- 59	- 28	SW	5.2		-0.2	4.4	99	10	Str.		
	8	- 59	- 29	SW	4.8	57.6	-0.2	4.4	99	10	Cust.		
	10	- 59	- 31	SSW	5.2		0.1	4.4	97	10	Ci. Cust.		
	Mn.	- 59	- 33	SSW	4.8	57.7	-0.2	4.4	97	10	Cust.		
July 5.	2	82 59	12 35	SSW	4.2		-0.3	4.2	95	10	Cust.		*°       ≡ <sup>1</sup> ≡ ≡ *° *° *° *°
	4	- 59	- 37	SW <sup>b</sup> S	4.1	58.1	0.0	4.3	95	10	Str.		
	6	- 59	- 39	SW	3.6		0.0	4.3	93	10	Cicu.		
	8	- 59	- 41	SW	3.6	58.7	0.0	4.4	97	10	Str.		
	10	- 59	- 43	SW	2.5		0.2	4.4	95	10	Ci. Cust.		
	Noon	- 59	- 45	WSW	3.3	60.2	-0.2	4.4	98	10	Ci. Cust.		
	2	- 59	- 45	SW <sup>b</sup> W	2.5		-0.4	4.4	99	10	Str.		
	4.30	- 59	- 46	SW	1.8	61.6	-0.5	3.9	89	10	Cicu.		
	6	- 59	- 46	WSW	2.5		-0.9	4.1	96	10	Cist.		
	8	- 59	- 46	W <sup>b</sup> S	1.8	62.4	-1.7	3.9	96	10	Cist.		
	10	- 59	- 46	SW	2.0		-1.9	3.8	97	10			
	Mn.	- 59	- 47	SW	2.1	63.2	-2.6	3.6	97	10	Cist.		
July 6.	2	82 59	12 47	SSW	1.3		-1.8	3.8	95	10	Cist.		≡ ≡ ≡ *° *° *° *° *° *° *° *°
	4	- 59	- 47	S <sup>b</sup> W	2.1	63.6	-2.5	3.6	94	10	Cist.		
	6	- 59	- 47	SE <sup>b</sup> S	2.6		-1.2	3.8	90	10	Cist.		
	8	- 59	- 48	S	2.4	63.7	-1.7	3.5	87	10	Cist.		
	10	- 59	- 48	SE	2.6		0.0	4.0	88	10	Cist.		
	Noon	- 59	- 48	E <sup>b</sup> S	2.4	64.4	-1.0	3.9	90	10	Str.		
	2	- 59	- 49	SE	2.5		-0.8	3.8	89	10	Str.		
	4	- 59	- 49	SE <sup>b</sup> E	2.4	64.4	-0.4	3.9	88	10	Str.		
	6	- 59	- 49	SE	1.4		-0.8	4.2	97	10	Str.		
	8	- 59	- 49	ESE	2.4	64.3	-0.9	3.9	90	10	Str.		
	10	- 59	- 49	SE <sup>b</sup> E	3.4		-1.2	4.0	94	10	Str.		
	Mn.	- 59	- 49	SSE	2.7	64.3	-1.4	4.0	96	10	Str.		
July 7.	2	83 0	12 50	SE <sup>b</sup> S	2.4		-1.4	4.0	96	10	Str.		
	4	- 0	- 50	SSW	2.7	64.3	-0.9	4.0	95	10	Str.		
	6	- 0	- 50	S <sup>b</sup> E	2.3		-1.1	4.1	97	10	Str.		

<sup>1</sup> Fog-bow.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form	Dir.	
July 7.	8	83° 0'	12° 50'	SSE	3.1	764.3	-0.3	4.3	97	10	Str.		
	10	- 0	- 50	SE <sup>b</sup> S	3.1		0.8	4.7	96	10	Str.		
	Noon	- 0	- 50	SE <sup>b</sup> S	2.6	64.7	0.6	4.7	99	10	Str.		
	2	- 1	- 50	SE <sup>b</sup> S	3.2		1.0	4.8	98	10	Str.		
	4	- 1	- 51	SE <sup>b</sup> S	2.6	64.9	1.2	4.7	94	10	Cicu.		
	6	- 1	- 51	SSE	2.6		1.0	4.7	95	10	Str.		
	8	- 1	- 51	SE <sup>b</sup> S	4.2	65.0	0.8	4.9	100	10	Str.		☉ <sup>1</sup>
	10	- 1	- 51	SE	4.1		0.9	4.9	100	10	Str.		☉ <sup>2</sup>
	Mn.	- 1	- 51	SE	3.2	65.2	0.0	4.6	100	10°	Cicu.	SW	
July 8.	2	83 2	12 51	SE <sup>b</sup> E	3.6		0.8	4.8	98	10°	Cicu.		
	4	- 2	- 51	SE <sup>b</sup> S	4.0	64.8	1.2	4.7	95	8	Cu.		
	6	- 2	- 52	SE <sup>b</sup> S	4.2		1.0	4.7	96	10°	Cicu.		
	8	- 2	- 52	SSE	4.8	65.2	0.8	4.6	95	10	Cust.		
	10	- 2	- 52	SE <sup>b</sup> S	4.2		1.0	4.6	93	10	Cicu.		
	Noon	- 2	- 52	SSE	4.3	65.5	1.2	4.6	92	10°	Cicu.		
	2	- 2	- 53	SE <sup>b</sup> S	4.0		1.0	4.7	94	10	Str.		
	4	- 3	- 53	SSE	4.3	65.5	0.6	4.7	98	10	Str.		
	6	- 3	- 54	SSE	4.3		0.7	4.7	98	10	Str.		
	8	- 3	- 54	SSE	4.1	65.2	0.6	4.8	100	10	Str.		≡ d
	10	- 4	- 55	SSE	3.7		0.5	4.8	100	10	Str.		≡
	Mn.	- 4	- 56	SSE	3.7	65.2	0.9		100	10°	Str.		≡
July 9.	2	83 4	12 56	S	4.6		-0.3	4.5	100	10°	Cist.		≡
	4	- 4	- 57	S	4.0	65.4	0.0	4.6	100	10			≡
	6	- 5	- 57	S	3.6		-0.4	4.4	99	10			≡
	8	- 5	- 58	S	4.1	65.2	-0.3	4.5	100	10			≡
	10	- 5	- 59	S	4.5		0.2	4.7	100	10			☉ d ≡
	Noon	- 5	- 59	S	5.1	64.9	0.4	4.7	100	10			≡
	2	- 5	13 0	S <sup>b</sup> W	4.6		0.8	4.7	97	10	Cust.		
	4	- 5	- 0	S <sup>b</sup> W	4.6	64.8	2.7	5.2	93	8°	Cicu.	S	
	6	- 5	- 1	S <sup>b</sup> W	5.4		0.7	4.7	99	10			≡
	8	- 5	- 2	S <sup>b</sup> W	4.0	64.8	1.6	4.9	94	10	Cist.		≡
	10	- 5	- 2	S <sup>b</sup> W	4.6		0.7	4.8	100	10	Cist.		≡ °
	Mn.	- 5	- 3	S <sup>b</sup> W	4.3	64.6	0.2	4.7	100	10			≡
July 10.	2	83 6	12 3	S <sup>b</sup> W	3.7		0.4	4.7	100	10°	Cist.		≡
	4	- 6	- 4	S <sup>b</sup> W	4.0	63.7	0.7	4.8	100	10			≡
	6	- 6	- 4	S <sup>b</sup> W	4.2		0.1			10	Cist.		≡
	8	- 6	- 5	S <sup>b</sup> W	4.4	63.8	0.0	4.6	100	10			≡
	10	- 6	- 5	S <sup>b</sup> W	4.3		0.2	4.6	99	10			≡
	Noon	- 6	- 6	SSE	2.8	63.5	0.4	4.7	100	10			≡
	2	- 6	- 6	S <sup>b</sup> E	2.6		0.6	4.7	99	10	Str.		≡
	4	- 6	- 7	S <sup>b</sup> E	2.8	62.8	0.6	4.8	100	10	Str.		≡
	6	- 6	- 7	S <sup>b</sup> W	4.6		0.6	4.8	100	10			≡
	8	- 6	- 8	S <sup>b</sup> W	3.4	62.7	0.6	4.8	100	10	Str.		≡
	10	- 6	- 8	S <sup>b</sup> W	3.0		0.4	4.7	100	10	Str.		≡
July 11.	Mn.	- 7	- 9	S <sup>b</sup> W	3.8	62.8	0.4	4.7	100	10	Str.		≡
	2	83 7	12 9	SSW	3.8		0.8	4.9	100	10	Str.		
	4	- 7	- 10	S <sup>b</sup> W	2.9	62.8	0.7	4.7	98	10	Str.		
	6	- 7	- 11	S	2.8		0.8	4.8	99	10	Str.		≡
	8	- 7	- 11	S	2.8	62.7	0.9	4.7	97	10	Str.		≡
	10	- 7	- 12	SSE	3.0		0.8	4.7	97	10	Str.		≡
	Noon	- 7	- 12	SE	2.4	61.3	0.9	4.7	97	10	Str.		≡
	2	- 7	- 13	SE <sup>b</sup> E	2.4		0.7	4.7	99	10	Str.		☉ ☉ ☉
	4	- 7	- 13	E <sup>b</sup> S	2.8	60.9	0.8	4.9	100	10	Ci. Cust.		☉ ☉ ☉
	6	- 7	- 14	E	3.6		0.9	4.9	100	10	Str.		≡
	8	- 8	- 14	E <sup>b</sup> S	4.0	59.1	0.2	4.9	100	10	Str.		≡ °
	10	- 8	- 15	ESE	4.0		0.5	4.7	100	10	Str.		≡
	Mn.	- 8	- 15	E <sup>b</sup> S	5.4	56.6	0.7	4.8		10	Str.		≡

<sup>1</sup> 9 p. m. ☉. <sup>2</sup> Blue sky on the horizon between E and S.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 12.	2	83° 8'	13° 16'	ESE	5.4		-0.8			10	Str.		≡
	4	- 8	- 16	ESE	4.2	754.4	1.2	5.0	100	0			
	6	- 8	- 17	SE <sup>b</sup> E	5.3		1.8	4.6	89	0			
	8	- 8	- 19	SE <sup>b</sup> S	5.6	52.5	2.2	4.8	89	0			
	10	- 8	- 21	S	4.4		1.3	5.0	100	10	Cist.		≡
	12.15	- 8	- 24	SW <sup>b</sup> S	6.6	53.3	0.7	4.7	98	10	Str.		
	2	- 8	- 26	SW	6.2		0.4	4.7	100	10	Str.		≡
	4	- 8	- 29	SW <sup>b</sup> W	6.3	54.9	0.4	4.5	96	10	Str.		
	6	- 9	- 31	SW <sup>b</sup> W	6.5		0.1	4.4	96	10	Ci. Cust.		
	8	- 9	- 34	SW <sup>b</sup> W	6.9	55.7	-0.2	4.3	95	10	Ci. Cust.		
	10	- 9	- 36	SW <sup>b</sup> W	5.9		-0.2	4.4	98	10	Ci. Cust.		<sup>1</sup>
	Mn.	- 9	- 39	SW	4.4	56.5	-0.2	4.1	91	10	Ci. Cust.		
July 13.	2	83 9	13 42	SW <sup>b</sup> S	6.8		-0.4	4.2	94	10	Str.		*°
	4	- 10	- 45	SW <sup>b</sup> S	6.4	57.0	-0.4	4.0	91	10	Str.		
	6	- 10	- 49	SW <sup>b</sup> S	6.6		-0.4	4.3	96	9	Cist.		*°
	8	- 11	- 52	SW <sup>b</sup> S	5.9	57.2	-0.6	4.1	94	10	Ci. Cust.		
	10	- 11	- 55	SW <sup>b</sup> S	5.2		-0.6	4.3	98	10	Cist.		*°
	Noon	- 12	- 58	SW <sup>b</sup> W	5.2	57.8	-0.4	4.3	97	10	Ci. Cust.		*°
	2	- 12	14 0	SW <sup>b</sup> W	6.1		0.2	4.0	88	10	Ci. Cust.		
	4	- 12	- 1	SW <sup>b</sup> S	5.8	59.0	-0.8	4.0	93	10	Ci. Cust.		
	6	- 12	- 2	SW <sup>b</sup> S	5.0		-1.3	4.0	97	10	Str.		
	8	- 12	- 3	SW <sup>b</sup> S	2.8	58.3	0.0	4.6	100	10	Cist.		≡°
	10	- 12	- 3	SE <sup>b</sup> S	3.4		0.3	4.7	100	10	Str.		≡°
	Mn.	- 12	- 4	SSE	3.2	57.1	0.7	4.8	100	10	Str.		≡° <sub>2</sub>
July 14.	2.15	83 13	14 4	SE <sup>b</sup> E	3.2		0.9	4.9	100	10	Str.		⊙
	4	- 13	- 5	E	3.3	55.1	1.1	5.0	100	10	Str.		⊙
	6	- 13	- 5	SE <sup>b</sup> E	4.4		1.2	5.0	100	10	Str.		⊙
	8	- 13	- 6	SSW	5.6	53.6	1.4	5.0	100	10	Str.		⊙
	10	- 13	- 6	S <sup>b</sup> W	5.2		1.1	4.9	98	10	Str.		⊙ d
	Noon	- 13	- 7	SSW	5.6	54.1	1.4	5.0	100	10	Str.		⊙ d
	2	- 14	- 7	SSW	5.0		1.3	5.0	100	10	Str.		⊙
	4	- 14	- 8	S <sup>b</sup> E	4.0	54.3	1.2	5.0	100	10	Str.		⊙
	6	- 14	- 8	S <sup>b</sup> E	4.6		1.5	5.1	100	10	Str.		⊙
	8	- 14	- 9	SSE	4.0	54.3			100	10	Str.		⊙
	10	- 14	- 9	SW <sup>b</sup> S	4.9		0.5	4.8	100	10	Str.		⊙
	Mn.	- 14	- 10	SSW	4.0	54.1	-0.7	4.4	100	10	Str.		⊙
July 15.	2	83 15	14 10	SSW	4.4		-0.6	4.3	99	10	Str.		≡
	4	- 15	- 11	SW <sup>b</sup> S	5.0	54.1	0.4	4.7	100	10	Str.		≡
	6	- 15	- 11	SW <sup>b</sup> S	3.5		-0.6	4.2	97	10	Str.		≡
	8	- 15	- 12	SW <sup>b</sup> S	4.3	54.3	0.4	4.6	99	10	Cist.		≡
	10	- 15	- 12	S	2.8		-0.5	4.3	98	10	Str.		≡
	Noon	- 15	- 13	SW <sup>b</sup> S	2.6	54.1	0.8	4.8	98	10	Cicu.		
	2	- 15	- 14	ESE	3.0		-0.5	4.3	96	10	Str.		⊙ d
	4	- 15	- 15	E	3.6	52.4	0.6	4.7	98	10	Str.		⊙ d
	6	- 15	- 16	ESE	2.3		0.8	4.7	96	10	Str.		⊙
	8	- 15	- 17	ESE	3.4	50.2	0.8	4.7	97	10	Str.		⊙
	10	- 15	- 19	E	3.7		1.2	4.9	96	10	Str.		⊙
	Mn.	- 15	- 20	ESE	3.9	47.7	1.0	4.7	97	10	Str.		⊙
July 16.	2	83 15	14 21	E <sup>b</sup> S	2.8		0.9	4.7	96	10	Str.		⊙°
	4	- 15	- 22	SSE	2.0	46.1	1.1	4.8	96	10	Str.		⊙
	6	- 15	- 23	SSW	3.3		1.2	4.9	98	10	Str.		⊙
	8	- 14	- 24	SW <sup>b</sup> S	4.3	45.3	1.1	4.9	98	10	Str.		⊙
	10	- 14	- 25	SW <sup>b</sup> S	3.5		0.9	4.8	99	10	Str.		≡°
	Noon	- 14	- 27	SSW	3.1	45.4	0.9	4.8	98	10	Str.		≡
	2	- 14	- 28	SW	3.7		0.7	4.7	99	10	Str.		≡
	4	- 14	- 29	WSW	3.3	47.0	0.7	4.7	98	10	Str.		⊙*°

<sup>1</sup> 9.45 p. m. ⊙ d. 11 p. m. \*° p. <sup>2</sup> 11 p. m. ⊙.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 16.	6	83° 14'	14° 30'	WNW	5.5		0.8	4.7	96	10	Str.		
	8	- 14	- 31	NW <sup>b</sup> W	6.4	749.7	0.7	4.6	94	10	Str.		
	10	- 14	- 32	WNW	6.7		0.7	4.4	90	10	Str.		
	Mn.	- 14	- 33	WNW	7.4	53.4	0.6	4.2	88	10	Cust		1 2
July 17.	2	83 14	14 35	WNW	6.0				91	10	Cust.		
	4	- 14	- 36	W <sup>b</sup> S	6.1	55.4	-0.9	4.1	96	10	Cist.		3
	6	- 14	- 37	WSW	5.9		-0.2	4.4	98	10	Cist.		≡°
	8	- 14	- 38	SW	5.5	56.3	-1.0	4.2	99	10	Cicu.Cist.	WSW	≡
	10	- 14	- 38	SW <sup>b</sup> S	4.4		-0.1	4.5	99	10	Str.		≡
	Noon	- 14	- 38	SW	3.5	56.9	-0.2	4.4	96	10	Cicu.	SW	≡
	2	- 14	- 38	SSW	3.5		0.0	4.2	91	10°	Cicu.Cist.	SW	≡
	4	- 14	- 38	SSE	3.8	56.8	0.3	4.3	92	10	Str.		≡°
	6	- 14	- 38	SE	3.6		0.8	4.6	95	10	Str.		≡°
	8	- 14	- 38	SE	3.1	56.0	0.9	4.6	95	10	Str.		≡°
	10	- 14	- 38	SE <sup>b</sup> E	3.2		1.0	4.7	95	10	Str.		≡°
	Mn.	- 14	- 38	SE <sup>b</sup> E	3.9	55.1	0.8	4.6	94	10	Str.		≡
July 18.	2	83 14	14 38	SE	5.1		0.5	4.6	97	10	Str.		≡°
	4	- 14	- 38	E <sup>b</sup> N	4.8	53.7	0.5	4.5	94	10	Str.		⊙ d
	6	- 14	- 38	E <sup>b</sup> N	5.3		0.6	4.6	96	10	Str.		⊙ d
	8.15	- 14	- 38	ENE	5.7	52.1	0.4	4.6	98	10	Str.		
	10	- 14	- 38	ENE	6.3		0.5	4.7	99	10	Str.		
	Noon	- 14	- 38	ENE	5.2	50.1	0.7	4.8	100	10	Str.		⊙ d ≡
	2	- 14	- 38	ENE	5.8		0.8	4.8	98		Str.		⊙ d ≡
	4	- 14	- 38	NE <sup>b</sup> E	5.3	47.8	0.6	4.6	97		Str.		⊙ * ≡
	6	- 14	- 38	NE	4.0		0.4	4.5	97		Str.		⊙ * ≡°
	8	- 14	- 38	NE	3.2	46.5	0.6	4.6	96		Str.		⊙ * ≡°
	10	- 14	- 38	NNE	2.0		0.6	4.6	96		Str.		⊙ d ≡°
	Mn.	- 14	- 38		0	46.0	0.6	4.7	98		Str.		≡
July 19.	2	83 14	14 38	WSW	1.7		0.4	4.5	97		Str.		≡
	4	- 14	- 38	SW	2.0	46.1	0.6	4.6	97		Str.		≡
	6	- 14	- 38	SSW	2.5		1.0	4.7	96		Cicu.	S	4
	8	- 14	- 38	SSW	2.5	46.5	0.9	4.7	97	10	Str.		≡
	10	- 14	- 39	SSW	2.1		1.1	4.7	95	10	Ci. Cust.		
	Noon	- 14	- 39	SW	2.1	46.3	1.1	4.7	95	10°	Cicu.Cist.		
	2	- 12	- 35	SSE	2.2		1.6	4.8	93	10°	Cist.		
	4	- 10	- 31	SW	1.7	47.0	2.2	4.7	88	8°	Ci.		
	8	- 6	- 23	NW <sup>b</sup> W	3.0	48.2	0.4	4.5	97	10°	Cist.		
	10	- 5	- 20	NW <sup>b</sup> W	3.7		0.3	4.5	96	10	Ci. Cust.		
	Mn.	- 5	- 14	WNW	4.5	49.6	0.3	4.7	100	10	Str.		≡°
July 20.	4	83 0	13 45	NW <sup>b</sup> W	5.5	51.6	-0.1	4.4	96	10	Str.		≡
	8.30	82 52	- 14	W <sup>b</sup> N	4.3	53.6	-0.7	4.3	99	10	Str.		≡
	12.20	- 47	12 47	WNW	4.8	55.7	-0.7	4.3	99	10	Cist.		≡
	4	- 42	13 7	WNW	3.9	57.1	-0.3	4.4	98	10	Str.		≡°
	8	- 41	- 5	W <sup>b</sup> S	2.3	58.2	-1.7	4.0	99	10	Str.		≡°
	Mn.	- 40	- 0	W <sup>b</sup> S	2.9	59.8	-1.8	3.9	98	10			5
July 21.	4	82 40	12 57	WNW		60.4	-1.8			0			
	8	- 41	- 53	SW <sup>b</sup> S	2.4	60.8	-0.8			0			6
	Noon	- 41	- 53	SSE	1.9	61.6	0.4			0			7
	4	- 40	- 50	SE	2.0	61.2	0.2	4.1	90	2	Ci.		
	9	- 38	- 47	NNE	1.5	61.2	0.2	4.5	96	1	Ci.		
	Mn.	- 33	- 48	ENE	1.8	60.6	-0.1	4.0	89	2	Ci.		
July 22.	4	82 24	12 55	NNE	3.2	59.6	-0.5	4.1	93	10°	Str.		
	8	- 14	13 15	N <sup>b</sup> E	5.3	58.4	0.1	4.0	87	10	Str.		
	12.15	- 14	- 12	N	5.9	57.4	0.6	4.4	93	10	Str.		

<sup>1</sup> Blue sky in ESE and between N and W. <sup>2</sup> Blue sky in SE. <sup>3</sup> Uniform blue sky from E over S to W.  
<sup>4</sup> ≡ horizon. <sup>5</sup> ≡ horizon. <sup>6</sup> Single ci. from SSW. <sup>7</sup> Dark sky between S and E.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 22.	4	82° 13'	13° 9'	NNW	7.0	754.3				10	Cust.		
	8	- 11	- 9	NNW	8.1	53.0	0.9	4.5	92	10	Str.		
	Mn.	- 7	- 5	NNW	8.7	50.9	0.8	4.4	90	10	Str.		
July 23.	4	82 7	13 0	NNW	9.0	49.8	0.5	4.1	88	10	Str.		*
	8	- 6	12 55	NNW	8.4	49.1	0.7	4.1	85	10	Str.		
	1.15	- 5	- 51	N	7.8	49.2	0.4	4.6	98	10	Str.		☉ *
	4	- 5	- 49	NNW	6.4	49.9	0.2	4.5	97	10	Str.		☉ *
	8	- 4	- 43	NNW	7.2	50.7	0.2	4.5	96	10	Str.		☉ *
	Mn.	- 3	- 41	NNW	6.2	52.3	-0.5	4.2	94	10	Str.		
July 24.	4	82 3	12 37	NW	5.4	53.8	-1.1	3.9	92	10	Cist.		
	8	- 3	- 37	NW <sup>b</sup> W	4.8	55.9	-1.0	3.9	91	0			
	Noon	- 2	- 38	W <sup>b</sup> N	2.8	58.1	-1.1	3.9	93	0			
	4	- 2	- 39	W	3.6	60.2	-0.2	4.2	92	2	Ci.		
	8.15	- 2	- 39	SW <sup>b</sup> W	2.8	62.0	-1.4	3.9	95	10	Cicu.	W	
	Mn.	- 1	- 37	S	2.8	62.6	0.0	4.4	96	10	Str.		
July 25.	4	82 1	12 37	SSE	2.0				92	10	Cicu.		
	8.15	- 0	- 25	SSE	1.7	63.8	1.4	3.6	87	10	Cust.		
	Noon	81 58	- 30		0	64.5	1.6	3.5	87	10	Cust.		
	6	- 54	- 33	SE	0.7	64.5	-0.3	4.1	93	2	Cu.		
	8.15	- 52	- 35	E <sup>b</sup> N	2.4	64.0	-0.2	4.0	89	4°	Cicu.		
	Mn.	- 52	- 30	ENE	1.6	63.6	-0.2	3.8	86	1°	Cicu.	NNW	
July 26.	4	81 52	12 27	E <sup>b</sup> N	2.5	63.0	-0.7	3.9	88	0			
	8	- 48	- 48	ENE	1.3	63.0	0.0	4.0	87	0			
	Noon	- 47	13 8	N <sup>b</sup> E	4.5	62.5	-1.1	4.0	95	10°	Ci.		
	4	- 47	- 3	N <sup>b</sup> E	5.6	62.7	-0.2	4.5	90	10	Cist.		
	8.15	- 47	12 59	N <sup>b</sup> W	4.6	63.0	-0.2	4.3	195	10	Ci. Cist.		
	Mn.	- 46	- 58	NNE	5.6	63.6	0.0	4.3	94	10	Cist.	NNE	
July 27.	4	81 46	12 56	NNE	5.1	64.8	0.6	4.3	90	5	Cicu.		
	7	- 46	- 54	N <sup>b</sup> W	3.7	65.7	0.1	3.9	86	0			
	Noon	- 46	13 5	NNW	4.2	66.4	1.4	4.0	78	0			
	6	- 41	12 46	NNW	3.4	66.1	1.5	3.9	76	0			
	8.20	- 38	- 37	NNW	3.4	66.2	1.0	4.0	81	0			
	Mn.	- 32	- 31	NNW	4.4	66.3	-0.2	3.4	77	0			
July 28.	4	81 33	12 31	NW <sup>b</sup> N	3.3	66.0	-0.8	3.4	79	0			
	8	- 34	- 31		0	65.3	1.5	4.1	81	0			
	12.30	- 35	- 31	SW <sup>b</sup> W	2.2	64.7	0.4	3.9	84	0			
	5	- 34	- 33	SW	2.4	63.8	2.4	4.1	76	0			
	8	- 32	- 35	S <sup>b</sup> W	2.0	63.1	0.2	3.6	79	10°	Cicu.		
	Mn.	- 31	- 37	S <sup>b</sup> E	1.8	62.3	0.1	3.4	75	10°	Cicu.	NW	
July 29.	4	81 31	12 34	SW <sup>b</sup> W	5.5	61.3	-0.4	4.3	97		Cist.		
	8	- 32	- 43	SW <sup>b</sup> W	4.1	60.9	0.6	4.4	93		Cist.		
	Noon	- 32	- 44	S <sup>b</sup> E	1.3	60.9	1.8	4.6	89	3°	Cist.		
	4	- 33	- 37	S	2.0	60.5	1.0	4.7	94	10	Str.		
	8	- 34	- 32	W	2.2	60.7	-0.2	4.0	89	10	Str.		
	Mn.	- 35	- 30		0	60.5	-0.3	4.1	92	10	Str.		
July 30.	4	81 36	12 31	SE	2.5	59.7	0.2	4.5	97	10	Str.		
	8	- 37	- 33	ENE	1.0	59.1	0.6	4.6	96	10	Str.		
	Noon	- 35	- 41	ESE	2.3	58.8	0.4	4.6	99	10	Str.		
	4	- 32	- 39		0	58.0	1.0	4.8	99		Str.		
	8.15	- 31	- 37	ENE	2.2	56.8	-0.3	4.4	99	10	Str.		
	Mn.	- 31	- 35	NNE	3.1	56.3	-1.8	3.9	98	10	Str.		

<sup>1</sup> ≡ all round the horiz.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
July 31.	4	81°30'	12° 33'	NNE	3.6	756.0	-1.7	4.0	98	10	Str.		☼
	8	- 29	- 31	NNE	3.3	56.1	-0.7	4.4	100	10	Str.		☼
	Noon	- 28	13 7	NNE	3.8	56.5	0.4	4.4	92	10	Str.		☼
	4	- 28	- 11	NE	2.6	57.1	0.6	4.5	94	10	Str.		☼
	8	- 27	- 16	NE	2.8	58.0	0.2	4.4	94	10	Str.		☼
	Mn.	- 28	- 20	NE	1.4	58.8	0.0	4.3	95	10	Str.		☼
Aug. 1.	4	81 29	13 25	NbW	3.0	58.6	-0.2	4.3	95	10	Str.		☼
	8	- 30	- 29	NWbN	3.0	58.2	0.4	3.9	82	10	Cust.		☼
	12.20	- 30	- 30	NWbW	4.4	58.2	0.1	3.9	86	10	Str.		☼
	4	- 29	- 32	WNW	3.6	57.8	0.0	4.3	94	10	Str.		☼
	8.15	- 28	- 36	NW	3.5	57.3	0.0	4.3	93	10	Str.		☼
	Mn.	- 27	- 39	W	3.0	56.8	-0.1	4.2	92	10	Str.		☼
Aug. 2.	4	81 27	13 43	W	3.5	56.4	-0.4	4.0	91	10	Str.		☼
	8	- 26	- 46	SSW	3.9	55.4	-0.2	4.3	95	10	Str.		☼
	Noon	- 26	- 43	SWbS	3.9	55.1	0.6	4.4	93	10	Str.		☼
	4	- 25	- 35	S	3.3	54.9	-0.2	4.3	94	10	Str.		☼
	8	- 25	- 28	SSE	2.5	55.2	-0.4	4.1	93	10	Str.		☼
	Mn.	- 24	- 20	SEbE	2.0	55.4	0.2	4.4	94	10	Str.		☼
Aug. 3.	4	81 24	13 13	EbN	4.8	55.0	0.5	4.5	94	10	Str.		☼
	8	- 23	- 5	EbN	6.0	55.0	0.5	4.4	93	10	Str.		☼
	12.30	- 22	12 57	EbN	6.3	53.8	0.6	4.5	95	10	Str.		☼
	4	- 21	- 50	ENE	8.3	53.0	0.2	4.2	93	10	Str.		☼
	8	- 21	- 43	NEbE	8.7	52.2	-0.4	3.9	89	10	Str.		☼
	Mn.	- 21	- 35	NE	7.7	53.4	-0.9	3.5	80	10	Str.		☼
Aug. 4.	4	81 20	12 28	NEbN	8.3	52.3	-1.1	3.3	78	8	Str.		☼
	8	- 20	- 23	N	6.8	51.6	-1.8	3.8	94	10	Str.		☼
	Noon	- 19	- 24	N	8.6	50.7	0.0	4.2	90	10	Str.		☼
	4	- 18	- 25	N	8.0	50.5	-0.4	3.5	80	10	Str.		☼
	8	- 18	- 25	N	7.5	49.8	-0.5	4.0	90	10	Str.		☼
	Mn.	- 17	- 26	NWbN	7.3	50.0	-0.6	4.0	90	10	Str.		☼
Aug. 5.	4	81 17	12 27	NWbW	8.0	50.1	-0.6	4.0	91	10	Str.		☼
	8	- 16	- 28	NW	9.0	50.0	-0.4	4.0	91	10	Str.		☼
	Noon	- 15	- 28	NWbW	8.7	51.0	0.0	4.1	89	10	Str.		☼
	4	- 15	- 29	NWbW	7.6	51.3	-0.6	4.1	93	10	Str.		☼
	8	- 14	- 30	NWbW	6.9	52.1	-0.3	4.1	91	10	Str.		☼
	11	- 13	- 30							9°	Cicu. Cist	N	☼
Aug. 6.	4	81 13	12 31	NW	7.3	53.8	-0.3	4.1	91	10	Str.		☼
	8	- 12	- 32	NWbN	6.5	55.1	0.0	4.1	89	10	Str.		☼
	Noon	- 11	- 33	NW	6.6	55.5	0.0	4.2	91	10	Str.		☼
	4	- 11	- 33	NW	5.8	56.0	0.1	4.3	92	10	Str.		☼
	8	- 10	- 34	NW	4.4	57.5	0.2	4.2	91	10	Str.		☼
	Mn.	- 9	- 35	NWbW	4.6	58.6	0.0	4.3	92	10	Str.		☼
Aug. 7.	4	81 9	12 35	NWbW	3.1	60.0	-0.2	4.4	96	10	Str.		☼
	8	- 8	- 36	NWbW	3.2	61.2	0.2	4.4	94	10	Str.		☼
	Noon	- 7	- 36	W	4.9	62.6	0.4	4.5	94	10	Str.		☼
	4	- 7	- 38	WNW	3.2	63.6	0.2	4.3	93	10	Str.		☼
	8	- 6	- 39	W	2.7	64.4	-0.1	4.4	96	10	Str.		☼
	Mn.	- 6	- 39	WSW	3.2	65.2	-0.1	4.4	96	10	Str.		☼
Aug. 8.	4	81 5	12 40	WSW	4.4	65.4	-0.8	4.1	94	10	Str.		☼
	8	- 5	- 40	W	4.1	66.0	-1.2	4.0	96	10	Str.		☼
	Noon	- 5	- 40	W	4.0	66.5	-0.4	3.9	88	10	Str.		☼

<sup>1</sup> 9, 10, 11 a. m. \*<sup>2</sup>

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 8.	5	81° 3'	12° 40'	WSW	2.3	766.7	-0.1			10°	Cist.		
	8	- 1	- 40	SW	3.2	66.6	0.2	4.2	90	10	Str.		
	Mn.	- 0	- 40	SSW	2.8	67.5	0.2	4.1	89	10	Cist.		
Aug. 9.	4	80 58	12 40	SSW	1.8	67.7	1.2	4.4	90	10	Str.		
	8	- 56	- 40		0	68.0	1.0	4.4	89	10	Str.		
	Noon	- 55	- 40	ESE	1.3	68.0	1.3	4.5	89	10	Ci. Cust.		
	4	- 56	- 37	EbS	2.8	68.0	0.8	4.3	89	8	Cist. Cu.		
	8.15	- 57	- 34	E	1.8	67.8	0.4	4.2	89	10°	Cist.		
	Mn.	- 59	- 31	SSE	2.0	66.9	1.2	4.4	90	10	Str.		
Aug. 10.	4	81 0	12 28	SSE	2.0	67.7	0.6	4.2	89	10	Cust.		☉ *
	8	- 1	- 25			66.3							
	9	- 2	- 24	SSE	2.8	67.4	1.2	4.4	89	10	Str.		
	Noon	- 2	- 24	S	2.2	67.6	1.6	4.8	93	10	Str.		
	4	- 3	- 23	SbE	2.4	67.0	0.8	4.5	92	10	Cist.		
	8	- 4	- 19	SSE	1.6	67.0	0.6	4.4	92	10	Cist.		
	Mn.	- 6	- 16	SEbS	3.0	67.1	0.8	4.5	92	10	Cist. Cu.		
Aug. 11.	4	81 8	12 12	SSE	2.4	67.1	0.9	4.5	92	10	Cist.		☉ d ☉
	8	- 9	- 8	SE	2.5	66.9	0.9	4.5	93	10	Cist.		
	Noon	- 10	- 4	SE	3.0	67.2	1.2	4.5	91	10	Str.		
	4	- 10	- 7	ESE	1.8	67.1	1.2	4.5	91	10	Cist. Cu.		
	Mn.	- 10	- 8	ESE	3.3	66.8	0.5	4.5	94	10	Cist.		
Aug. 12.	4	81 11	12 5	ESE	4.0	66.3	0.4	4.4	93	10	Cist.		*° ≡ ☉ ☉ ☉ <sup>1</sup>
	8	- 11	- 4	EbS	2.7	66.0	0.5	4.4	93	10	Str.		
	Noon	- 7	- 5	EbS	3.0	65.7			94	10	Str.		
	4	- 8	- 1	EbS	2.7	65.2	0.6	4.5	94	10	Str.		
	8	- 5	- 12		0	65.2	0.5	4.5	94	10	Str.		
	Mn.	80 56	- 12	SEbE	0.5	64.4	0.8	4.6	94	10	Str.		
Aug. 13.	4	80 43	12 41	E	2.1	63.7	1.9	4.9	93	10	Str.		☉ ≡ <sup>2</sup>
	Noon	- 38	- 57	ENE	4.0	62.9	2.6	4.9	90	10	Str.		
	5	- 18	- 27	NEbN	4.8		2.8	5.0	89	10	Str.		
	9	- 2	- 3	NNE	6.8	63.3	2.5	5.2	94	10	Str.		
	Mn.	79 50	- 25	ENE	3.2	63.4	2.4	5.2	94	10	Str.		
Aug. 14.	4	79 51	11 56	NNE		62.9	2.1	5.1	94	10			≡ ☉ ☉ * ≡ ☉ * ☉ *
	8	- 48	- 28	WNW	4.5	62.1	1.2	4.6	92	10	Str.		
	Noon	- 45	- 20	WNW	2.0	62.1	0.6	4.2	89	10	Str.		
	4	- 45	- 20	NNW	5.6	61.9	1.1	3.8	76	10	Str.		
	9.15	- 45	- 20	NW	4.5	61.1	0.2	3.2	70	10	Str.		
	12.15	- 45	- 20	WNW	6.0	60.6	-0.3	3.3	75	10	Str.		
Aug. 15.	4	79 40	11 24	S	1.8	59.4	-0.9	3.9	91	10	Str.		* ☉ * ☉ * 3
	8	- 39	- 2	NW	3.0	58.6	0.0	4.3	92	10	Str.		
	Noon	- 23	10 8	NNW	6.6	57.2	0.0	4.2	91	10	Str.		
	8	78 45	9 43	NNE	4.7	55.1	0.9	4.5	90	10	Str.		
	12.15	- 26	10 32	NE	2.9	54.3	1.0	4.3	88	10	Cust.		
Aug. 16.	4	78 7	11 4	NE	7.1	53.5			75	9	Cust.		4
	8	77 44	- 45	NEbE	3.5	52.7	2.4	4.6	84	10	Cust.		
	Noon	- 23	12 23	NNE	6.0	52.2	1.8	4.7	91	10	Cust.		
	4	- 0	13 2	NEbN	1.6	51.9	1.9	4.7	90	10	Str.		
	8	76 38	- 39	NEbN	2.4	52.5	1.8	4.6	89	10	Cust.		
	Mn.	- 24	14 2	NEbE	3.3	52.7	2.2	4.3	80	10	Cust.		
Aug. 17.	4	76 11	14 22	N	3.2	56.3	2.8	4.6	81	0			
	8	75 59	- 41	NW	5.6	52.6	4.1	4.5	75	10	Cust.		
	12.45	- 37	15 15	WNW	7.2	53.3	4.9	5.4	83	8	Ci. Cust.		

<sup>1</sup> 3 p. m. to Midn ☉. <sup>2</sup> 1 a. m. 4 a. m. to ☉°. <sup>3</sup> Clearing up. <sup>4</sup> 3 p. m. ☉\*.

1896. Day.	H. l. t.	Lat.	Long.	Wind		Press. St.Gr. m. m.	Temp. C	Vap. tens. m. m.	Rel. Hum. p. c.	Clouds			Weather.
				Direction True.	Vel. m.p.s.					Am.	Form.	Dir.	
Aug. 17.	4.15	75° 7'	15° 45'	WNW	10.0	754.8	5.2			8	Cust.		☉ p Δ°
	8.15	74 32	16 16	W b N	13.3	55.3	5.2	6.1	93	8	Cust.		
	Mn.	5	- 46	W	8.2	57.4	5.3	5.9	90	10	Ci. Cust.		
Aug. 18.	4	73 43	17 15	WNW	9.7	59.9			82	10	Cust.		☉°
	8	20	- 45	WSW	6.7	61.9	5.1	5.9	90	10	Cust.		
	Noon	72 48	18 15	W	5.9	63.5	5.5	6.0	90	10	Cust.		
	4	35	- 45	WSW	3.0		6.9	6.8	91	10	Cust.		
	9	13	19 12	S	3.7	63.7	7.3	7.1	93	10	Cist. Cust.		
	Mn.	1	- 24	S	2.1	64.1	8.0	7.2	90	10	Cust.		
Aug. 19.	4	71 43	19 24	SE b S	2.3	64.0	9.1	7.7	91	8	Cu.		
	8.15	24	- 22	SE b E	2.6	62.6	10.6	8.8	93	4	Ci. Cust.		
	12.15	6	- 36	SE b S	2.4	63.2	10.8	8.8	92	0			
	4	70 49	20 2	SE b E	1.4	61.6	11.0		90	0			
	8	32	- 32	SE b E	1.9	62.6	10.7	8.8	91	8	Cu.		
	Mn.	14	21 0	SE b E	2.6	62.1	10.8	8.8	92	3	Cu.		

NOTE. "Blue sky" in the remarks below the Tables of Observations signifies "Water-sky" or reflection from open water.



## RESULTS.



From the meteorological observations given in the Tables above, Page 25 to 248, I have deduced the results set forth in the following chapters. These results comprise chiefly, the climatological elements and their diurnal and annual periods for that part of the circumpolar arctic ocean in which the Fram was drifting during the period October 1893 to August 1896. It is generally understood, that the determination of the mean values of the different climatological elements and their periods, requires a series of observations made during many years, and this is particularly true for the regions belonging to the cold zone. The observations made during the voyage of the Fram only cover a space of time of not quite three years; but they are well made, with controlled instruments, many times each day, and what is of the utmost importance, in regions where the surface of the earth during the whole time was of a unique homogeneous nature, consisting of a level of frozen water with an uninterrupted free horizon. The distance from continents or islands was always considerable. The place of the Fram changed, it is true, not inconsiderably, particularly in longitude; so that the observations are far from being taken on the same spot, but the environs of the Fram were always so similar, that the factors having influence upon the climate may be regarded as a function mainly of the latitude and only slightly of the longitude, at least in respect of the diurnal variations of the climatological elements.

The following Table shows for each month of the drift, the mean, the highest, and the lowest latitude and likewise the mean, the greatest, and the least longitude, taken from the positions of the Fram each noon (local time).

Year.	Month.	Latitude N.			Longitude E.		
		Mean.	Max.	Min.	Mean.	Max.	Min.
1893	October	78° 24'	78° 55'	78° 10'	135° 47'	136° 16'	135° 38'
	November	78 15	78 41	77 51	138 7	139 32	134 53
	December	79 0	79 8	78 42	137 5	138 36	136 48
1894	January	79 21	79 50	78 56	136 30	137 33	134 35
	February	80 1	80 9	79 55	134 23	135 29	133 46
	March	79 52	80 9	79 38	134 47	135 18	134 9
	April	80 22	80 45	80 9	133 10	135 7	131 11
	May	81 7	81 35	80 46	127 8	131 22	122 18
	June	81 39	81 52	81 28	121 50	122 33	120 59
	July	81 24	81 35	81 3	124 53	126 13	123 1
	August	81 4	81 9	80 54	127 34	128 9	125 55
	September	81 14	81 22	81 4	122 56	125 19	121 16
	October	81 39	82 10	81 5	117 16	122 4	112 30
	November	82 6	82 11	81 58	111 12	112 7	110 9
	December	82 45	83 23	82 10	106 12	110 36	101 55
1895	January	83 30	83 41	83 22	102 44	103 30	102 3
	February	83 37	83 56	83 25	102 48	103 21	101 46
	March	84 5	84 9	83 59	100 52	102 13	99 13
	April	84 15	84 19	84 11	95 57	99 15	93 42
	May	84 34	84 41	84 13	87 24	93 30	82 3
	June	84 38	84 52	84 30	81 7	84 31	74 57
	July	84 39	84 48	84 28	74 24	76 1	71 56
	August	84 28	84 38	84 9	77 20	79 9	75 26
	September	85 1	85 9	84 44	78 53	80 2	76 59
	October	85 29	85 46	85 5	76 48	79 19	70 24
	November	85 45	85 56	85 28	64 59	70 18	58 46
	December	85 23	85 30	85 15	50 42	58 29	46 36
1896	January	84 59	85 20	84 40	40 16	46 2	30 25
	February	84 22	84 50	84 3	24 30	28 45	22 42
	March	84 6	84 19	83 57	24 18	26 17	22 56
	April	84 15	84 30	84 1	16 21	22 53	12 14
	May	83 55	84 11	83 39	11 54	12 59	11 2
	June	83 2	83 30	82 55	12 20	13 3	11 37
	July	82 40	83 15	81 27	13 5	14 39	11 43
	August <sup>1</sup>	79 30	81 30	71 6	13 20	13 43	10 19

Another peculiarity with regard to the Fram-observations is this. In the high latitudes in which she was drifting, summer is day, and winter is night, whilst only a couple of equinoctial months in spring and autumn have regular days and nights.


The following Table shows the dates on which the different seasons commenced and closed.

<sup>1</sup> 1<sup>st</sup> to 19<sup>th</sup>.

Day and Night.	Perpetual Night.	Perpetual Day.
1893. Aug. 16 <sup>th</sup> to Oct. 26 <sup>th</sup>	1893. Oct. 26 <sup>th</sup> to 1894. Febr. 20 <sup>th</sup>	
1894. Febr. 20 <sup>th</sup> to Apr. 12 <sup>th</sup>		1894. Apr. 12 <sup>th</sup> to Sept. 1 <sup>st</sup>
1894. Sept. 1 <sup>st</sup> to Oct. 16 <sup>th</sup>	1894. Oct. 16 <sup>th</sup> to 1895. March 2 <sup>d</sup>	
1895. March 2 <sup>d</sup> to Apr. 1 <sup>st</sup>		1895. Apr. 1 <sup>st</sup> to Sept. 12 <sup>th</sup>
1895. Sept. 12 <sup>th</sup> to Oct. 8 <sup>th</sup>	1895. Oct. 8 <sup>th</sup> to 1896. March 2 <sup>d</sup>	
1896. March 2 <sup>d</sup> to Apr. 1 <sup>st</sup>		1896. Apr. 1 <sup>st</sup> to Aug. 16 <sup>th</sup>



The accompanying diagram shows the position of the Fram in the different seasons according to the above given tables. The heavy black lines indicate the dark season or perpetual night, the parallel light lines the sunny season or perpetual day, and the small circles the equinoctial months March and September. The black circle shows the mean position for the dark season, the open circle the same for the sunny season, and the circle with a central point the same for the equinoctial months. The diagram shows at a glance the distance of the track of the Fram from *Terra firma*.



## WIND.

### DIRECTION.

The number of the cases in which the wind had been observed blowing from one or other of the 32 points of the compass and of calms, was tabulated for each hour of observation and for each month separately. The numbers belonging to the intermediate points N<sup>b</sup>E, NE<sup>b</sup>N, NE<sup>b</sup>E etc. were distributed evenly, each with half their amount, among the adjacent 16 points N, NNE, NE etc. The result of this tabulation is given in the following Tables of Wind-Frequency.

## WIND-FREQUENCY. OCTOBER.

		2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N	1893	-	2.5	-	3.5	-	4.5	-	3.0	-	2.0	-	2.0
	94	0.5	2.0	1.5	0.0	0.0	0.5	0.5	1.5	1.0	1.0	1.0	0.5
	95	0.0	1.0	0.0	1.5	1.0	1.0	2.5	0.5	1.0	0.0	0.5	0.0
NNE	1893	-	2.5	-	2.0	-	2.5	-	2.5	-	2.0	-	2.0
	94	1.0	1.0	0.5	1.0	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.5
	95	3.0	2.0	2.0	2.5	3.5	3.0	1.5	1.5	1.0	1.0	1.5	1.5
NE	1893	-	1.5	-	1.5	-	1.5	-	2.5	-	2.0	-	0.5
	94	2.0	0.5	1.0	1.5	1.0	1.0	0.0	1.0	1.0	1.5	4.0	3.0
	95	2.5	2.0	2.0	1.0	2.5	2.0	0.5	3.0	4.0	3.5	2.5	2.0
ENE	1893	-	0	-	1.0	-	1.0	-	0.5	-	0	-	0
	94	2.5	2.0	2.0	3.0	2.0	2.5	4.5	2.5	2.5	3.0	1.5	1.5
	95	2.5	3.0	3.5	4.0	2.0	2.0	2.5	2.5	4.0	2.5	2.5	3.5
E	1893	-	0	-	1.0	-	0.5	-	0.5	-	0	-	1.0
	94	3.5	5.0	4.0	4.0	4.0	5.0	3.5	2.5	3.5	3.0	3.5	3.5
	95	4.0	2.0	2.0	2.0	1.0	0.5	3.0	2.0	3.0	2.5	3.5	4.0
ESE	1893	-	0	-	0.5	-	0.5	-	0.5	-	0.5	-	1.0
	94	6.5	5.5	6.5	7.5	7.0	7.0	5.5	6.0	7.0	7.5	7.5	6.0
	95	1.5	4.0	4.0	4.5	3.5	1.0	3.0	3.5	1.0	1.0	2.5	1.0
SE	1893	-	1.0	-	0.5	-	0.5	-	0.5	-	1.0	-	0
	94	2.5	2.5	2.5	4.0	5.5	5.0	6.5	6.0	3.5	4.5	2.5	3.5
	95	4.5	3.5	3.5	1.0	4.0	5.5	4.5	1.5	2.0	3.5	4.0	4.5
SSE	1893	-	1.0	-	1.5	-	2.0	-	1.0	-	1.5	-	0
	94	2.0	2.5	3.0	2.0	1.5	1.0	1.5	3.0	3.5	1.5	2.0	2.0
	95	2.0	3.5	3.5	6.5	3.0	3.0	2.5	3.5	3.0	4.0	1.5	3.0
S	1893	-	0	-	2.0	-	2.5	-	1.0	-	0.5	-	1.0
	94	1.5	2.5	3.0	0.5	1.0	1.5	0.5	1.0	1.0	1.0	0.5	1.5
	95	4.5	3.5	3.5	1.0	3.0	4.0	3.0	3.0	3.0	2.5	3.5	2.5
SSW	1893	-	0	-	1.0	-	1.0	-	1.5	-	0.5	-	1.0
	94	0.5	0.5	0.5	1.0	1.0	1.0	0.5	1.0	0	0	0.5	1.5
	95	1.5	1.0	1.5	1.5	1.0	1.0	1.0	1.5	2.5	2.5	3.0	3.0
SW	1893	-	2.0	-	2.0	-	2.0	-	2.0	-	1.5	-	1.0
	94	1.0	0.5	0	1.5	1.0	1.0	0.5	0	0.5	1.5	1.5	2.0
	95	1.0	1.5	1.5	1.0	1.5	2.0	1.5	2.0	2.5	2.0	0	0.5
WSW	1893	-	4.5	-	2.0	-	2.0	-	3.0	-	4.0	-	3.5
	94	1.0	0.5	0	0	1.5	0.5	1.0	0.5	1.5	2.5	1.5	0.5
	95	0.5	0.5	1.0	0.5	0.5	1.0	1.5	1.0	0	1.5	2.0	2.0
W	1893	-	1.5	-	0.5	-	1.5	-	1.5	-	1.5	-	1.0
	94	0	0	0	1.0	0.5	1.5	2.5	3.0	1.5	0	0	0
	95	0.5	1.0	1.5	2.0	1.0	0.5	1.0	0.5	2.0	0.5	2.0	1.5
WNW	1893	-	4.0	-	3.0	-	2.0	-	0.5	-	2.5	-	4.0
	94	2.0	0	0	0.5	0.5	1.0	0.5	0.5	2.0	0.5	0.5	1.0
	95	0	1.0	0.5	1.5	2.0	2.0	1.5	0.5	0.5	1.0	0.5	0
NW	1893	-	4.5	-	4.5	-	3.0	-	3.5	-	4.5	-	3.5
	94	1.5	0.5	1.0	1.5	1.5	1.0	2.0	2.0	1.0	2.0	3.0	2.0
	95	1.0	0.5	1.0	0.5	0.5	0.5	1.5	2.0	0.5	1.0	1.0	1.0
NNW	1893	-	3.0	-	3.5	-	3.0	-	3.5	-	6.0	-	2.5
	94	2.0	2.5	1.5	1.0	1.0	1.0	0	0.5	0.5	1.5	1.5	1.0
	95	1.0	0	0	0	0	1.0	0	1.5	1.0	2.0	0.5	1.0
Calm	1893	-	3	-	1	-	0	-	1	-	1	-	4
	94	1	3	3	1	1	0	1	0	1	0	0	1
	95	1	1	0	0	1	1	0	1	0	0	0	0



## WIND-FREQUENCY. NOVEMBER.

		2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N	1893	-	1.0	-	2.5	-	2.5	-	1.5	-	1.5	-	1.5
	94	1.0	2.5	2.0	2.0	2.0	2.5	1.0	0.5	1.5	1.0	1.0	1.5
	95	2.5	3.5	2.5	3.5	2.5	3.0	4.5	4.5	3.0	3.5	4.0	3.5
NNE	1893	-	0.5	-	1.0	-	1.5	-	2.5	-	0.5	-	0.5
	94	0	0	2.0	1.5	1.5	1.0	2.5	1.5	1.0	1.0	1.0	0.5
	95	0.5	2.0	2.5	1.5	2.0	2.0	2.0	2.5	3.0	0.5	2.0	1.0
NE	1893	-	0.5	-	0	-	0	-	0	-	0	-	0.5
	94	2.5	1.0	1.5	3.0	3.0	2.0	3.0	1.5	2.0	2.0	1.0	1.5
	95	2.5	2.5	3.0	3.0	4.0	2.5	1.5	1.0	2.0	4.0	4.0	4.0
ENE	1893	-	0	-	0	-	0	-	0	-	0	-	0
	94	1.0	1.0	1.5	2.0	3.0	2.0	2.0	2.0	0.5	1.0	1.0	1.0
	95	2.5	2.0	2.0	2.0	1.5	1.0	0.5	2.0	1.5	4.0	3.5	1.5
E	1893	-	0.5	-	0.5	-	0.5	-	0.5	-	0.5	-	0.5
	94	2.5	4.5	5.0	3.0	2.0	4.5	3.5	3.0	3.5	3.0	2.0	3.5
	95	3.5	4.5	4.0	2.5	3.0	2.0	4.5	2.5	5.0	4.0	2.5	5.0
ESE	1893	-	1.5	-	2.5	-	2.0	-	2.5	-	2.5	-	1.5
	94	3.0	1.5	2.5	3.5	3.0	3.5	4.5	4.5	4.5	4.5	5.5	4.0
	95	1.5	1.5	2.5	3.5	3.0	2.5	2.5	3.5	2.5	1.5	1.5	3.0
SE	1893	-	4.5	-	3.5	-	3.5	-	3.5	-	4.5	-	5.0
	94	3.5	2.5	2.0	3.0	3.0	3.5	2.0	3.0	2.0	1.0	3.0	2.5
	95	1.5	0.5	1.0	1.0	0	2.5	1.0	1.0	0	0.5	2.0	0.5
SSE	1893	-	5.5	-	4.0	-	3.0	-	4.5	-	5.5	-	6.5
	94	2.5	3.0	1.5	2.0	2.5	2.0	2.5	3.0	3.5	4.5	2.5	2.0
	95	0.5	0.5	0	0.5	2.0	2.0	1.0	1.0	1.0	1.5	0.5	0
S	1893	-	3.0	-	3.0	-	3.5	-	4.0	-	2.5	-	4.5
	94	1.0	0.5	1.0	0	0	0	0.5	0	0.5	0.5	0.5	0
	95	2.0	2.0	2.0	2.5	2.5	2.5	3.5	3.5	3.0	3.0	2.5	2.5
SSW	1893	-	2.0	-	3.0	-	2.0	-	1.5	-	1.0	-	2.0
	94	2.0	1.5	2.5	1.5	2.5	2.5	1.0	1.5	1.0	0.5	1.5	3.0
	95	1.5	1.5	1.0	1.5	1.5	2.0	2.5	2.0	3.0	1.5	1.0	1.5
SW	1893	-	2.0	-	1.5	-	2.0	-	2.0	-	2.5	-	1.5
	94	1.0	2.5	3.0	4.0	3.0	1.5	1.5	1.5	1.0	2.0	1.5	1.5
	95	1.5	1.5	2.5	1.0	1.5	2.0	1.0	1.5	1.0	1.5	2.5	2.0
WSW	1893	-	1.0	-	2.0	-	2.0	-	2.5	-	0.5	-	2.0
	94	3.0	1.0	1.5	0.5	0.5	1.5	2.5	3.0	3.0	1.5	2.5	4.0
	95	0.5	1.0	1.5	0.5	1.5	0	0	0	0	0	0	0
W	1893	-	3.0	-	2.5	-	2.5	-	0.5	-	1.0	-	2.0
	94	1.5	2.0	0	0	0	0.5	1.5	1.0	1.5	1.5	1.5	0.5
	95	1.0	1.5	0.5	2.0	1.0	0.5	0	0	0	0	0	0
WNW	1893	-	2.0	-	0.5	-	1.0	-	0.5	-	0.5	-	0.5
	94	1.5	1.0	0.5	0.5	0	0	0	0	1.0	1.5	1.0	0
	95	0.5	2.0	0.5	2.0	1.0	0.5	0	0	1.0	0.5	0.5	0.5
NW	1893	-	0	-	0	-	0	-	0.5	-	0.5	-	0.5
	94	1.5	2.5	1.5	2.5	1.0	0	0	1.5	1.0	2.5	1.5	2.0
	95	2.0	0.5	1.0	1.5	1.5	2.5	2.0	1.5	1.0	1.5	1.0	1.0
NNW	1893	-	2.0	-	1.5	-	1.0	-	0.5	-	1.5	-	1.0
	94	2.5	2.0	2.0	1.0	2.0	3.0	2.0	2.5	2.5	2.0	3.0	2.5
	95	3.0	1.0	1.5	1.5	1.5	2.5	3.5	3.5	3.0	2.5	2.5	3.0
Calm	1893	-	1	-	2	-	3	-	3	-	5	-	0
	94	0	1	0	0	1	0	0	0	0	0	0	0
	95	3	2	2	0	0	0	0	0	0	0	0	1

## WIND-FREQUENCY. DECEMBER.

		2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N	1893	-	0.5	-	1.0	-	1.5	-	0.5	-	0.5	-	0
	94	0	0	0	0.5	0.5	0.5	0.5	0.5	0	0	0	0
	95	4.0	2.5	2.0	2.5	2.0	2.5	2.0	3.0	2.0	3.5	4.0	1.5
NNE	1893	-	1.5	-	2.5	-	1.5	-	3.5	-	4.0	-	2.0
	94	1.0	1.0	1.0	1.5	1.5	0.5	0	0	1.0	1.0	0.5	0.5
	95	1.0	2.0	2.0	2.0	4.0	4.5	5.5	5.5	6.0	2.5	3.0	3.5
NE	1893	-	1.5	-	1.5	-	2.0	-	1.5	-	1.5	-	1.5
	94	0	0.5	0.5	0	0.5	1.0	1.5	0	1.0	2.0	1.5	1.0
	95	4.5	3.0	3.5	5.5	5.5	4.5	3.5	2.5	3.5	4.0	3.5	2.5
ENE	1893	-	2.0	-	1.0	-	1.0	-	1.0	-	1.0	-	2.0
	94	2.5	2.0	3.0	3.5	2.5	3.5	2.5	6.0	4.5	3.5	5.5	6.0
	95	4.0	3.0	4.0	2.0	2.0	1.5	2.5	3.0	4.0	4.5	4.0	4.5
E	1893	-	0.5	-	0	-	0.5	-	1.0	-	1.0	-	0.5
	94	8.0	5.5	5.5	6.5	7.0	3.0	5.0	2.5	4.0	4.0	3.5	4.0
	95	7.0	8.5	5.0	4.0	3.5	4.0	4.0	4.0	4.5	3.0	4.5	4.0
ESE	1893	-	3.5	-	3.0	-	3.0	-	4.5	-	3.5	-	3.0
	94	5.0	8.0	6.5	7.0	7.0	8.0	6.5	7.0	5.5	5.5	5.5	5.0
	95	1.5	1.5	3.5	4.5	1.5	1.5	1.0	0.5	1.0	2.0	1.5	1.5
SE	1893	-	6.0	-	6.0	-	5.0	-	5.0	-	5.0	-	4.0
	94	7.0	7.5	7.0	4.0	4.0	4.5	5.0	5.5	5.0	6.0	6.0	6.0
	95	2.0	1.5	2.0	1.5	4.0	3.5	1.5	1.5	1.0	3.5	2.0	3.0
SSE	1893	-	5.0	-	5.0	-	4.5	-	2.5	-	4.5	-	3.5
	94	3.0	2.0	3.0	3.0	3.0	4.0	4.5	4.0	5.0	4.0	3.0	3.0
	95	2.0	2.5	1.5	3.0	2.0	3.0	3.0	3.0	1.5	2.0	3.0	2.5
S	1893	-	3.0	-	2.5	-	3.0	-	2.5	-	3.0	-	3.5
	94	0.5	0.5	0.5	1.0	1.0	1.0	0	0	0	0	0.5	0.5
	95	4.0	2.0	2.5	2.5	2.0	2.5	3.5	3.5	3.0	4.0	4.0	3.5
SSW	1893	-	2.0	-	3.5	-	3.0	-	2.5	-	3.0	-	2.5
	94	1.0	1.0	1.0	0.5	1.5	2.0	2.5	2.0	1.5	2.0	1.5	1.5
	95	0	0	0	0	0.5	0	0	1.0	0.5	0	0	0
SW	1893	-	0.5	-	1.0	-	1.0	-	2.5	-	1.5	-	1.5
	94	1.5	1.5	1.5	2.5	1.5	1.0	0.5	0	0.5	0	1.0	0.5
	95	0	0	0	0	0	1.0	1.0	0	1.0	0	0	0
WSW	1893	-	0	-	0.5	-	0.5	-	0	-	0.5	-	0
	94	0.5	0.5	0.5	0	0	0	0	1.0	1.0	1.0	1.0	1.5
	95	0	0	0	0	1.0	1.0	0	0	0	0	0	0
W	1893	-	1.0	-	0.5	-	1.0	-	0.5	-	0	-	1.0
	94	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.5
	95	0	0	0	1.0	0	0	0	0	0	0	0	0
WNW	1893	-	0	-	0	-	0.5	-	0.5	-	1.0	-	0
	94	0	0	0	0	0	0	0	0.5	0	0	0	0
	95	0	0	1.0	0	0	0	1.0	0	0	0	0	0
NW	1893	-	0.5	-	0	-	0	-	0	-	0	-	0.5
	94	0	0	0	0	0	0	0	0.5	0.5	0	0	0
	95	1.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	1.0	2.0
NNW	1893	-	0.5	-	0	-	1.0	-	0	-	0	-	0.5
	94	0	0	0	0	0	1.0	1.0	0.5	0.5	1.0	1.0	0
	95	0	1.5	1.0	1.5	1.5	0.5	1.5	1.5	1.0	1.5	0.5	1.5
Calm	1893	-	2	-	3	-	1	-	3	-	1	-	4
	94	0	0	0	0	0	0	0	0	0	0	0	0
	95	0	2	2	0	1	0	0	1	1	0	0	1

## WIND-FREQUENCY. JANUARY.

		2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N	1894	-	1.0	-	0	-	0	-	0	-	0.5	-	1.0
	95	0	0.5	1.0	0.5	1.0	0.5	1.0	1.0	0.5	0	0	0.5
	96	3.5	2.0	2.5	2.0	3.5	2.5	3.5	2.5	2.5	3.5	4.5	3.0
NNE	1894	-	0.5	-	1.5	-	1.0	-	1.0	-	0.5	-	0
	95	1.5	1.5	1.0	1.5	1.5	1.0	0.5	0	0	0.5	0.5	0.5
	96	2.5	2.5	2.0	2.5	1.0	3.5	4.0	4.5	3.5	3.0	2.5	1.5
NE	1894	-	0.5	-	1.5	-	1.5	-	0	-	0	-	0
	95	1.0	0.5	0.5	0.5	0.5	1.0	0.5	0	0.5	1.5	2.5	1.0
	96	0.5	1.5	3.0	2.0	4.0	2.5	0.5	0.5	2.0	0	1.5	1.0
ENE	1894	-	0.5	-	1.0	-	1.5	-	0	-	1.0	-	0.5
	95	1.0	1.0	1.0	2.5	1.0	2.0	2.5	3.5	2.5	1.5	0.5	1.5
	96	5.0	3.0	3.0	2.5	2.5	1.5	1.5	3.0	1.5	3.5	4.0	5.0
E	1894	-	2.0	-	1.0	-	2.0	-	1.5	-	2.0	-	1.0
	95	0.5	1.0	0.5	1.0	3.0	2.0	0	0.5	1.0	0.5	0.5	0.5
	96	4.5	5.0	4.0	4.0	2.5	3.0	3.0	3.0	4.0	4.5	3.5	4.0
ESE	1894	-	3.5	-	3.0	-	4.0	-	4.0	-	1.5	-	2.0
	95	0.5	1.0	2.0	1.0	1.0	0.5	0	0	0	0	0	0
	96	1.0	4.5	4.0	3.5	4.5	3.5	2.0	1.5	2.0	1.5	1.5	0.5
SE	1894	-	5.0	-	2.5	-	2.5	-	5.5	-	5.5	-	5.0
	95	2.5	2.5	2.0	2.0	2.0	2.0	0.5	1.0	2.0	2.5	2.5	2.5
	96	1.5	1.5	1.5	3.0	1.5	3.0	4.5	3.5	3.5	3.0	3.5	2.5
SSE	1894	-	3.5	-	4.0	-	3.0	-	3.5	-	4.5	-	5.5
	95	3.5	3.5	4.0	2.5	3.5	5.0	5.0	5.0	6.5	6.0	4.0	4.0
	96	2.5	2.0	2.0	1.5	3.0	2.5	2.0	3.0	1.5	3.0	2.5	3.5
S	1894	-	5.5	-	6.0	-	6.0	-	6.0	-	5.5	-	5.5
	95	6.0	4.5	5.0	5.0	5.5	6.0	5.5	6.5	5.5	5.0	5.0	7.0
	96	1.0	2.0	1.5	1.0	0	0	0	0	0	0.5	0.5	0.5
SSW	1894	-	5.5	-	5.5	-	5.5	-	4.0	-	5.0	-	2.5
	95	4.5	4.5	3.0	3.5	2.5	2.0	2.0	1.5	3.5	2.5	2.5	3.0
	96	1.5	0.5	0.5	0	0	0	0	0	0	0	0	1.0
SW	1894	-	1.0	-	2.0	-	1.0	-	1.5	-	1.0	-	0.5
	95	3.0	2.0	2.5	3.5	1.5	1.0	1.0	2.0	1.0	1.0	2.0	2.0
	96	0.5	0	0	0	0	0	0	0	0	0	0.5	1.0
WSW	1894	-	1.5	-	2.0	-	2.0	-	2.0	-	2.5	-	2.0
	95	0	3.0	2.5	1.5	1.0	1.5	2.5	2.0	0.5	1.0	2.0	1.0
	96	0	0	0	1.0	1.0	1.0	0	0	0.5	0	0.5	0
W	1894	-	0	-	0	-	0	-	1.0	-	0.5	-	0.5
	95	2.0	1.0	0.5	0.5	0.5	0.5	1.0	0.5	1.0	2.0	2.5	2.5
	96	0	0	0	0	0	0	0	0	0.5	0	0	0
WNW	1894	-	0	-	0	-	0.5	-	0	-	0	-	0
	95	4.0	3.5	3.0	3.0	2.5	2.5	4.0	5.0	4.0	4.0	4.0	2.0
	96	1.0	0.5	0	0.5	0	0	0	1.5	1.0	1.0	1.0	1.0
NW	1894	-	0	-	0.5	-	0.5	-	0	-	0	-	0
	95	0	0	0.5	1.0	2.0	3.5	2.5	2.0	1.5	1.5	1.0	2.0
	96	1.0	0.5	1.0	1.5	1.0	1.5	2.0	1.0	2.5	2.5	0.5	0.5
NNW	1894	-	0	-	0.5	-	0	-	0	-	0	-	0
	95	0	0	0	1.0	1.5	0	0	0.5	1.0	0.5	0	0
	96	5.0	5.5	6.0	6.0	6.5	6.5	7.0	7.0	5.0	5.0	4.5	5.0
Calm	1894	-	1	-	0	-	0	-	1	-	1	-	5
	95	1	0	0	0	0	0	1	0	0	1	0	1
	96	0	0	0	0	0	0	1	0	1	0	0	1

## WIND-FREQUENCY. FEBRUARY.

		2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N	1894	-	2.0	-	1.0	-	4.0	-	1.5	-	1.0	-	0.5
	95	0.5	0.5	0.5	1.0	1.0	0.5	1.0	1.0	1.0	1.0	0.5	0.5
	96	2.5	1.5	1.0	1.5	0.5	0.5	1.5	1.5	2.0	1.5	1.5	2.5
NNE	1894	-	0.5	-	2.0	-	2.0	-	1.0	-	1.0	-	1.5
	95	0	0	0	0	1.0	0.5	1.0	1.5	1.0	1.0	0	0
	96	0	0	0	2.5	2.5	1.0	0.5	0.5	1.0	1.5	0.5	0.5
NE	1894	-	1.0	-	1.5	-	0	-	0	-	1.0	-	2.0
	95	0.5	0	0	1.5	0.5	1.0	1.5	0.5	0.5	1.0	0.5	0.5
	96	1.0	1.0	1.5	0.5	0	0.5	1.0	2.0	1.5	0.5	0.5	0.5
ENE	1894	-	0.5	-	0.5	-	0	-	2.0	-	0.5	-	0.5
	95	0.5	0.5	0.5	2.0	1.0	2.0	1.0	0.5	1.0	0.5	1.0	0.5
	96	2.5	2.5	2.0	1.5	2.0	2.5	2.0	0.5	0.5	1.0	1.0	0.5
E	1894	-	0	-	0.5	-	1.0	-	1.0	-	0	-	0
	95	2.0	3.0	3.0	4.0	4.5	3.5	3.5	3.0	2.5	2.0	2.0	1.0
	96	1.5	1.5	1.5	0.5	1.0	0	1.0	1.5	1.0	1.5	1.0	1.5
ESE	1894	-	1.0	-	2.0	-	1.5	-	0.5	-	0.5	-	0.5
	95	7.5	6.0	7.5	3.5	4.5	6.0	6.0	5.5	5.0	7.0	6.5	8.0
	96	2.0	2.5	1.0	1.0	1.0	0.5	1.5	2.0	2.0	1.5	1.5	2.0
SE	1894	-	2.5	-	0.5	-	1.5	-	1.0	-	2.0	-	2.0
	95	3.5	3.0	2.0	3.5	2.5	2.5	1.5	2.0	2.5	3.5	4.0	4.0
	96	3.5	2.5	3.5	2.5	2.5	4.0	2.5	3.0	2.0	1.5	3.5	2.5
SSE	1894	-	2.0	-	2.5	-	1.5	-	2.0	-	4.0	-	3.0
	95	3.0	3.5	4.0	2.5	3.0	2.5	3.5	2.5	2.0	0.5	1.0	1.0
	96	2.0	1.5	1.5	1.0	3.0	1.5	2.0	1.5	1.5	2.0	2.0	3.0
S	1894	-	3.0	-	3.5	-	2.0	-	3.5	-	1.5	-	2.0
	95	2.5	3.0	2.0	2.5	3.0	3.0	3.0	3.0	2.5	2.5	2.5	2.5
	96	0.5	0.5	1.0	3.0	1.5	0	0	0	1.5	2.5	1.5	1.0
SSW	1894	-	2.5	-	1.5	-	3.0	-	2.5	-	0	-	2.0
	95	2.0	2.5	1.5	1.5	0.5	1.0	0.5	3.0	3.0	3.5	4.0	2.0
	96	0.5	1.0	0	1.5	0.5	1.5	0	1.5	2.5	1.5	1.5	1.0
SW	1894	-	3.5	-	2.5	-	3.5	-	5.0	-	5.0	-	4.0
	95	1.0	1.0	1.5	1.0	1.0	1.0	1.0	0.5	1.0	0.5	0.5	2.0
	96	0.5	1.0	2.5	1.0	1.0	2.0	4.0	3.5	2.0	1.0	0.5	0.5
WSW	1894	-	3.5	-	3.5	-	3.0	-	2.0	-	4.0	-	2.5
	95	0.5	2.5	1.0	1.0	1.5	0.5	0.5	0	0	0.5	1.5	2.5
	96	1.5	1.0	1.5	1.5	1.5	2.0	2.5	1.5	2.0	4.0	2.0	2.5
W	1894	-	0	-	1.0	-	1.0	-	1.0	-	0	-	1.0
	95	1.5	0	1.5	1.5	1.0	1.5	1.0	1.0	1.0	1.0	0.5	0.5
	96	1.5	2.0	1.5	2.5	3.0	2.0	1.5	2.0	1.5	1.5	2.0	1.0
WNW	1894	-	1.5	-	0.5	-	1.5	-	1.0	-	1.5	-	2.0
	95	1.5	1.5	2.0	0.5	1.0	1.5	2.5	2.0	2.0	1.5	1.5	1.5
	96	3.0	5.0	3.0	2.0	2.5	2.5	3.0	1.5	1.5	2.5	4.0	4.5
NW	1894	-	0.5	-	1.5	-	0.5	-	2.5	-	2.5	-	1.0
	95	0	0.5	0.5	2.0	0.5	0.5	0.5	0.5	0.5	0.5	1.5	1.0
	96	4.0	2.0	2.5	1.0	1.5	1.5	1.5	2.5	2.5	2.5	3.0	3.0
NNW	1894	-	2.0	-	1.5	-	0	-	1.5	-	0.5	-	1.5
	95	1.5	0.5	0.5	0	0.5	0.5	0	0.5	0.5	0.5	0.5	0.5
	96	2.5	3.5	4.0	4.5	5.0	6.0	4.5	4.0	4.0	2.5	3.0	2.5
Calm	1894	-	2	-	2	-	2	-	0	-	3	-	2
	95	0	0	0	0	1	0	0	1	1	1	0	0
	96	0	0	1	1	0	1	0	0	0	0	0	0



		2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N	1894	0.5	1.0	0	0	0	0	0	0	0	0.5	1.5	1.0
	95	1.5	1.0	1.5	1.5	3.0	2.0	5.5	4.0	4.0	1.5	1.5	2.0
	96	2.0	2.5	1.0	1.5	2.0	2.0	1.5	2.0	1.5	1.5	2.0	1.0
NNE	1894	0.5	1.5	0.5	0	0	0.5	0.5	1.0	1.0	1.0	0.5	1.0
	95	3.5	3.5	3.5	2.0	3.0	4.5	3.5	3.0	3.0	1.5	1.5	3.0
	96	2.5	5.5	4.0	3.0	2.5	3.0	3.5	3.0	3.0	1.5	2.5	3.0
NE	1894	1.0	1.0	1.5	2.5	2.5	2.0	2.5	2.0	1.5	2.0	1.5	1.0
	95	4.5	4.0	3.5	6.0	4.0	5.0	2.5	5.0	4.0	5.5	6.0	5.0
	96	2.5	0.5	2.0	2.0	3.0	3.5	4.5	2.5	3.0	4.0	3.0	3.0
ENE	1894	2.0	1.5	2.5	2.0	2.5	3.0	2.0	2.0	2.5	3.0	1.5	0
	95	2.0	3.0	1.0	1.0	1.5	0	1.0	0	1.0	1.5	1.5	1.0
	96	6.0	4.0	4.5	5.5	5.0	4.5	5.5	5.0	3.0	4.5	5.0	3.5
E	1894	2.5	3.0	2.5	4.0	4.0	3.0	3.5	3.0	3.5	1.0	2.5	4.5
	95	1.5	1.0	3.5	1.5	2.0	1.5	0.5	1.0	1.5	1.0	1.0	2.0
	96	1.5	3.0	1.0	3.0	1.5	3.5	1.5	3.0	4.5	3.5	3.0	3.0
ESE	1894	4.5	4.5	5.5	5.5	6.5	6.0	6.0	5.0	6.0	5.5	4.5	3.0
	95	0.5	1.0	1.0	0	1.0	1.0	1.5	1.0	1.0	3.0	0.5	0.5
	96	2.0	2.0	4.5	0.5	2.0	0	0	1.0	2.5	3.0	2.5	4.0
SE	1894	4.0	3.0	4.0	3.0	2.5	3.0	2.5	5.0	3.5	3.5	4.0	7.0
	95	2.5	0.5	1.5	3.0	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5
	96	2.0	3.0	2.5	2.5	1.5	2.5	2.0	3.0	2.0	2.0	2.5	2.0
SSE	1894	3.5	3.0	2.0	2.5	2.0	2.0	2.5	2.5	2.5	5.5	6.0	5.0
	95	2.5	3.0	1.5	1.5	1.5	2.5	1.5	0.5	1.0	1.0	1.5	1.5
	96	2.0	1.0	2.5	1.5	2.5	2.0	2.0	1.0	1.5	0.5	0.5	0.5
S	1894	6.5	8.0	7.5	6.0	6.5	6.5	5.5	5.5	5.5	3.5	3.0	4.0
	95	2.5	1.5	3.5	2.0	2.0	1.0	2.0	2.0	2.0	2.5	2.5	2.5
	96	3.5	3.0	2.5	4.0	2.0	2.5	4.5	3.5	3.5	4.0	3.0	3.5
SSW	1894	2.0	1.5	1.0	2.5	2.5	2.5	3.0	2.0	2.0	2.5	1.0	1.0
	95	0	2.0	1.0	2.0	0.5	2.0	2.0	2.5	2.5	1.5	1.0	1.0
	96	1.5	2.5	2.0	1.5	3.0	1.0	0.5	0.5	0.5	0.5	1.5	1.0
SW	1894	0.5	0	0	0	0	0.5	0	0	0	0	0	0.5
	95	2.0	1.5	2.5	4.0	3.5	3.5	2.5	3.0	2.5	3.0	3.0	3.0
	96	0	0.5	0	1.0	0	2.0	0	1.0	0	0	0	0
WSW	1894	0.5	0	0	0	0	0	1.0	0.5	0.5	1.0	0	0
	95	0.5	2.0	2.0	0.5	0.5	0	0.5	1.5	0.5	0.5	0	0.5
	96	0	0	0	0.5	2.0	0	1.0	1.0	0	0	0	0
W													







## WIND-FREQUENCY. JULY.

		2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N	1894	0	0	0	0	0.5	1.0	0.5	0.5	1.0	1.5	1.5	0.5
	95	4.0	4.0	2.0	1.5	2.0	2.0	2.5	0.5	2.0	2.0	1.0	1.0
	96	0	0	0	1.0	0	2.5	0	0.5	0	0.5	0	0
NNE	1894	0.5	0.5	0.5	1.0	0.5	0.5	1.0	0.5	0	0	0	0
	95	2.0	2.0	2.5	1.5	0.5	1.5	2.0	2.0	2.5	1.5	3.5	4.0
	96	0	3.0	0	1.5	0	1.5	0	0.5	0.5	1.0	1.0	2.0
NE	1894	0.5	0.5	0.5	0	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
	95	1.0	1.0	1.5	1.5	3.5	3.0	3.0	3.0	2.0	3.0	2.5	2.5
	96	0.5	0.5	0	0	0	0	0	1.5	1.0	2.0	0	1.0
ENE	1894	0	0	0	0	0.5	0.5	0	0	0	0	0	0
	95	0.5	0.5	1.0	2.5	1.5	0.5	1.0	1.0	1.5	1.5	1.0	1.0
	96	0.5	1.5	1.5	3.0	1.0	1.0	1.0	0.5	0	1.5	0	2.0
E	1894	0	0	0	0	0	0	0	0	0	0	0	0
	95	1.5	1.5	1.0	2.0	1.0	1.5	0.5	0	0	0	0	0
	96	0.5	2.0	0.5	0	0	0.5	0	1.5	1.0	1.0	1.0	0.5
ESE	1894	0.5	0.5	0.5	0	0	0	0	0	0	0	0	0
	95	1.0	1.0	1.0	0	1.0	1.0	1.5	1.0	0	0	0	0.5
	96	2.5	1.0	1.0	0	0	1.5	1.5	1.0	1.0	2.5	2.0	2.0
SE	1894	2.0	3.0	2.5	2.0	2.5	1.0	1.0	1.5	2.0	1.0	1.0	1.0
	95	2.0	2.0	1.5	0	3.5	0.5	2.0	2.5	2.5	2.5	1.5	2.0
	96	2.5	1.5	2.0	0.5	2.0	1.5	2.5	2.0	3.0	1.5	2.5	1.5
SSE	1894	0.5	1.0	2.0	3.0	1.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	95	1.5	1.0	1.5	2.0	2.0	2.5	1.0	1.0	2.5	1.5	3.5	2.0
	96	1.0	2.5	2.0	4.0	2.5	3.0	2.5	4.0	2.5	2.5	1.5	3.5
S	1894	2.0	2.0	2.0	1.5	2.0	1.5	2.0	1.5	2.0	2.5	2.5	1.5
	95	2.5	3.5	2.0	2.5	2.0	1.5	2.0	1.5	1.5	2.0	0.5	0.5
	96	2.0	3.5	3.5	4.0	4.5	1.5	1.0	3.0	1.0	2.0	2.0	3.5
SSW	1894	1.0	0.5	1.0	1.5	1.5	2.0	1.5	2.0	1.0	1.0	1.0	2.5
	95	2.5	6.0	4.0	4.0	3.5	3.5	2.0	1.5	2.0	3.5	5.0	5.0
	96	5.0	5.0	4.5	5.0	3.5	4.5	3.5	1.5	3.0	2.5	2.5	3.0
SW	1894	1.0	1.0	0	0.5	2.0	2.5	1.0	0.5	0.5	2.0	2.0	1.0
	95	5.0	2.5	2.0	2.5	1.5	3.0	3.0	4.0	4.0	3.0	5.0	5.5
	96	0.5	3.5	2.5	5.5	3.5	6.5	5.5	4.5	2.0	2.5	2.0	2.0
WSW	1894	2.5	2.0	2.5	3.0	3.0	2.5	3.5	2.5	1.5	1.5	1.5	2.0
	95	3.0	1.0	2.0	2.0	2.5	3.0	4.0	4.0	5.5	4.5	3.0	3.0
	96	2.0	1.5	1.5	1.0	2.0	3.0	1.5	2.0	3.0	2.5	2.0	1.0
W	1894	6.5	5.5	6.5	5.5	5.5	5.5	7.0	6.5	7.5	5.0	5.0	4.5
	95	1.5	3.0	1.5	3.5	4.0	3.0	3.5	5.5	3.0	3.0	2.0	2.5
	96	1.0	0.5	0	1.5	0	0.5	0	1.5	0.5	3.5	0.5	2.0
WNW	1894	6.0	6.5	7.0	6.5	4.5	7.0	5.5	5.5	5.5	7.5	7.5	7.5
	95	1.0	1.0	1.5	0.5	1.0	1.0	1.5	1.5	1.0	2.0	1.5	0
	96	1.0	1.5	0	1.0	0	1.5	0	1.0	1.0	1.0	1.5	2.0
NW	1894	5.0	6.0	5.0	3.5	6.0	3.0	3.0	5.0	4.5	3.0	3.0	3.0
	95	0.5	1.0	1.0	0.5	0.5	1.0	1.0	0.5	0	0	0	0
	96	0	2.0	0	0.5	0	0	0	0	0	1.0	0.5	0
NNW	1894	0	0	0	2.0	0.5	1.0	2.0	1.5	2.0	0.5	0.5	1.0
	95	0.5	0	2.0	4.5	4.0	2.5	0.5	1.5	1.0	1.0	1.0	1.5
	96	0	1.5	0	1.5	0	1.0	0	2.0	1.0	3.5	0	3.0
Calm	1894	3	2	1	1	0	0	0	0	0	2	2	3
	95	1	0	1	0	0	0	0	0	0	0	0	0
	96	0	0	0	0	0	0	0	0	0	0	0	0



## WIND-FREQUENCY. SEPTEMBER.

		2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N	1894	3.0	2.5	3.0	2.0	2.0	1.5	1.5	2.0	1.5	2.0	3.5	4.0
	95	0.5	0	0.5	4.0	2.0	1.5	1.5	0.5	0.5	1.0	1.0	0.5
NNE	1894	2.0	1.5	1.5	2.5	3.5	2.5	2.5	2.0	2.5	3.0	1.5	2.5
	95	0.5	1.0	1.5	0	0	0	1.5	1.5	1.5	1.0	0.5	1.5
NE	1894	2.5	2.5	3.0	3.0	2.5	1.5	1.5	2.0	1.5	1.5	2.5	1.5
	95	0.5	0.5	0	1.5	1.5	1.0	0.5	0.5	0.5	1.5	0	0
ENE	1894	3.0	3.5	2.0	2.0	1.5	3.0	4.0	2.0	2.5	1.5	2.0	2.5
	95	1.0	1.5	2.0	1.5	2.5	1.5	2.0	3.5	2.5	2.5	1.5	1.5
E	1894	1.0	0.5	0.5	1.0	2.0	1.0	1.0	2.0	2.0	1.5	1.0	1.0
	95	2.5	2.0	1.0	0.5	1.0	1.5	1.5	0.5	1.5	0	1.5	1.5
ESE	1894	1.0	1.0	1.5	2.0	1.0	1.5	1.0	2.5	0.5	1.0	1.0	1.0
	95	2.0	0	0	1.5	1.5	1.5	1.5	2.0	2.0	4.0	1.5	1.0
SE	1894	2.0	2.0	1.5	1.0	1.0	1.0	0.5	0.5	3.0	2.0	3.0	2.0
	95	2.0	2.0	2.5	2.0	1.5	2.5	1.5	2.5	2.0	1.0	1.5	2.0
SSE	1894	0	1.5	1.5	3.0	1.5	1.0	2.5	2.0	3.0	2.0	1.0	0
	95	2.0	1.0	0.5	1.0	0.5	0	1.0	1.5	1.5	1.0	1.5	2.0
S	1894	1.5	2.5	1.5	1.0	2.5	5.0	1.5	2.5	1.5	2.0	2.0	3.0
	95	1.0	2.0	2.0	1.5	1.5	2.5	2.0	2.0	3.0	1.5	1.5	1.0
SSW	1894	2.5	2.0	1.5	0.5	1.5	0.5	1.5	1.5	0	1.0	1.0	1.0
	95	2.5	1.0	2.0	2.5	2.5	0.5	2.0	2.0	3.0	3.5	2.0	1.5
SW	1894	1.0	0.5	1.5	1.5	1.0	1.0	1.5	1.0	1.5	1.0	0	1.5
	95	1.5	1.5	1.5	1.0	2.5	2.0	2.5	4.5	2.0	2.0	2.0	1.5
WSW	1894	1.5	0.5	0.5	0.5	0.5	1.0	0.5	1.0	0.5	1.0	1.5	1.0
	95	5.0	5.5	5.0	5.5	6.0	5.5	6.0	5.0	4.5	5.0	5.0	6.0
W	1894	2.0	1.0	0.5	0.5	1.0	1.0	2.5	3.0	2.5	1.0	1.5	3.0
	95	4.0	6.5	5.0	4.5	3.0	6.0	3.5	1.0	2.5	2.0	3.5	6.0
WNW	1894	1.0	1.5	2.5	1.5	1.5	1.5	1.0	0.5	2.0	2.0	2.0	0.5
	95	3.0	1.5	2.5	1.5	0.5	1.5	1.0	1.0	1.5	3.0	1.5	2.5
NW	1894	3.0	4.5	3.0	4.0	3.5	3.5	4.5	4.5	4.0	4.5	2.5	2.0
	95	2.0	0.5	1.0	1.5	2.5	0	0.5	2.0	1.5	1.0	2.5	1.5
NNW	1894	2.0	2.5	3.5	3.0	2.5	2.5	1.5	1.0	1.5	2.0	3.0	2.5
	95	0	1.5	1.0	0	1.0	1.5	0.5	0	0	0	2.0	0
Calm	1894	1	0	1	1	1	0	1	0	0	1	1	1
	95	0	2	2	0	0	1	1	0	0	0	1	0

Taking the sums for the 3 years (2 years for September) we get the following Tables. For the hours 2, 6, 10 a. m. and p. m. on which no observations were made from October 1893 to March 1894, and which are marked by a — in the foregoing Tables, the numbers have been interpolated as the mean of the ziphers for the adjacent points of the compass before taking the 3-yearly means.

## WIND-FREQUENCY. OCTOBER.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N . . . . .	2.7	5.5	4.5	5.0	5.0	6.0	6.7	5.0	4.5	3.0	3.5	2.5
NNE . . . .	6.2	5.5	4.7	5.5	6.7	6.0	4.5	4.0	3.2	3.0	3.5	4.0
NE . . . . .	5.2	4.0	4.5	4.0	5.0	4.5	2.5	6.5	7.2	7.0	8.2	5.5
ENE . . . .	5.0	5.0	6.0	8.0	5.0	5.5	7.7	5.5	6.7	5.5	4.0	5.0
E . . . . .	8.0	7.0	6.5	7.0	5.7	6.0	7.0	5.0	6.7	5.5	7.5	8.5
ESE . . . . .	8.0	9.5	10.7	12.5	11.0	8.5	9.0	10.0	8.5	9.0	10.7	8.0
SE . . . . .	7.0	7.0	6.7	5.5	10.0	11.0	11.7	8.5	6.5	9.0	7.0	8.0
SSE . . . . .	4.5	7.0	7.7	10.0	6.2	6.0	5.5	7.5	7.7	7.0	4.2	5.0
S . . . . .	6.5	6.0	7.5	3.5	6.2	8.0	5.2	5.0	4.7	4.0	4.7	4.5
SSW . . . .	2.5	1.5	2.5	3.5	3.0	3.0	2.7	4.0	3.5	3.0	4.2	5.5
SW . . . . .	3.5	4.0	3.5	4.5	4.5	5.0	4.0	4.0	4.7	5.0	2.7	3.5
WSW . . . .	5.5	5.5	4.2	2.5	4.0	3.5	5.0	4.5	5.0	8.0	7.2	6.0
W . . . . .	1.7	2.5	2.5	3.5	2.5	3.5	5.0	5.0	5.0	2.0	3.2	2.5
WNW . . . .	6.0	5.0	4.0	5.0	5.0	5.0	3.2	1.5	4.0	4.0	4.2	5.0
NW . . . . .	6.5	5.5	6.5	6.5	5.7	4.5	6.7	7.5	5.5	7.5	8.0	6.5
NNW . . . .	5.2	5.5	4.7	4.5	4.2	5.0	3.2	5.0	6.2	9.5	6.2	4.5
Calm . . . .	5.5	7.0	5.0	2.0	2.5	1.0	2.0	3.0	2.5	1.0	2.5	5.0

## WIND-FREQUENCY. NOVEMBER.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N . . . . .	4.7	7.0	6.2	8.0	7.0	8.0	7.5	6.5	6.0	6.0	6.5	6.5
NNE . . . .	1.0	2.5	5.2	4.0	4.7	4.5	6.5	6.5	5.5	2.0	3.5	2.0
NE . . . . .	5.5	4.0	4.7	6.0	7.0	4.5	4.5	2.5	4.0	6.0	5.2	6.0
ENE . . . .	3.5	3.0	3.5	4.0	4.5	3.0	2.5	4.0	2.0	5.0	4.5	2.5
E . . . . .	6.5	9.5	9.5	6.0	5.5	7.0	8.5	6.0	9.0	7.5	5.0	9.0
ESE . . . . .	6.0	4.5	7.0	9.0	8.2	8.0	9.2	10.5	9.5	8.5	9.0	8.5
SE . . . . .	9.7	7.5	7.0	7.5	6.5	9.5	6.5	7.5	6.0	6.0	9.7	8.0
SSE . . . . .	9.0	9.0	6.2	6.5	8.0	7.0	7.2	8.5	9.5	11.5	9.0	8.5
S . . . . .	6.7	5.5	6.0	5.5	5.7	6.0	7.7	7.5	6.7	8.0	6.5	7.0
SSW . . . .	5.5	5.0	6.0	6.0	6.5	6.5	5.2	5.0	5.2	3.0	4.0	6.5
SW . . . . .	4.2	7.0	7.2	6.5	6.2	5.5	4.5	5.0	4.2	6.0	5.5	5.0
WSW . . . .	5.0	3.0	4.5	3.0	4.0	3.5	4.5	5.5	4.2	2.0	4.2	6.0
W . . . . .	5.0	6.5	3.2	4.5	3.5	3.5	3.0	1.5	2.2	2.5	3.0	2.5
WNW . . . .	3.7	5.0	2.0	3.0	1.5	1.5	0.7	0.5	2.5	2.5	2.0	1.0
NW . . . . .	3.7	3.0	2.5	4.0	2.5	2.5	2.0	3.5	2.2	4.5	3.0	3.5
NNW . . . .	6.7	5.0	5.2	4.0	5.0	6.5	6.2	6.5	5.7	6.0	6.0	6.5
Calm . . . .	3.5	4.0	3.5	2.0	3.5	3.0	3.0	3.0	4.0	7.0	4.5	3.0

## WIND-FREQUENCY. DECEMBER.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N . . . . .	4.2	3.0	3.2	4.0	3.7	4.5	3.5	4.0	2.5	4.0	4.2	1.5
NNE . . . .	3.7	4.5	5.0	6.0	7.5	6.5	8.0	9.0	10.7	7.5	6.5	6.0
NE . . . . .	6.0	5.0	5.5	7.0	7.7	7.5	6.7	4.0	6.0	7.5	6.5	5.0
ENE . . . .	8.5	7.0	8.5	6.5	5.5	6.0	6.0	10.0	9.5	9.0	11.0	12.5
E . . . . .	15.5	14.5	10.7	10.5	10.7	7.5	9.7	7.5	9.5	8.0	8.7	8.5
ESE . . . .	9.7	13.0	13.2	14.5	11.5	12.5	11.2	12.0	10.5	11.0	10.2	9.5
SE . . . . .	14.2	15.0	15.0	11.5	13.5	13.0	11.5	12.0	11.0	14.5	12.7	13.0
SSE . . . .	9.5	9.5	9.5	11.0	9.7	11.5	11.0	9.5	10.0	10.5	10.2	9.0
S . . . . .	7.7	5.5	6.7	6.0	5.7	6.5	6.2	6.0	5.7	7.0	7.7	7.5
SSW . . . .	3.2	3.0	3.7	4.0	5.2	5.0	5.2	5.5	4.7	5.0	4.2	4.0
SW . . . . .	2.2	2.0	2.2	3.5	2.5	3.0	3.2	2.5	3.5	1.5	2.2	2.0
WSW . . . .	0.5	0.5	0.7	0.5	1.5	1.5	0.2	1.0	1.2	1.5	1.2	1.5
W . . . . .	2.0	2.0	1.7	2.5	1.7	2.0	1.7	1.5	1.2	1.0	1.0	2.5
WNW . . . .	0	0	1.0	0	0.2	0.5	1.5	1.0	0.7	1.0	0.5	0
NW . . . . .	1.5	1.5	1.2	1.0	0.5	1.0	1.0	1.5	1.5	0.5	1.2	2.5
NNW . . . .	0.5	2.0	1.2	1.5	2.0	2.5	3.0	2.0	1.5	2.5	1.7	2.0
Calm . . . .	2.5	4.0	4.5	3.0	3.0	1.0	2.0	4.0	3.0	1.0	2.0	4.0

## WIND-FREQUENCY. JANUARY.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N . . . . .	4.5	3.5	4.0	2.5	4.5	3.0	4.5	3.5	3.2	4.0	5.2	4.5
NNE . . . .	4.2	4.5	4.0	5.5	3.7	5.5	5.5	5.5	4.2	4.0	3.2	2.0
NE . . . . .	1.7	2.5	4.5	4.0	6.0	5.0	1.7	0.5	2.5	1.5	4.0	2.0
ENE . . . .	6.5	4.5	4.7	6.0	4.7	5.0	4.7	6.5	4.5	6.0	5.2	7.0
E . . . . .	6.5	8.0	6.0	6.0	7.0	7.0	4.7	5.0	6.7	7.0	5.5	5.5
ESE . . . .	4.2	9.0	9.2	7.5	9.0	8.0	6.0	5.5	4.7	3.0	3.2	2.5
SE . . . . .	9.0	9.0	7.2	7.5	6.0	7.5	9.0	10.0	11.0	11.0	11.2	10.0
SSE . . . .	10.5	9.0	9.7	8.0	10.0	10.5	10.2	11.5	12.0	13.5	11.5	13.0
S . . . . .	12.5	12.0	12.2	12.0	11.5	12.0	11.5	12.5	11.2	11.0	11.0	13.0
SSW . . . .	10.0	10.5	9.0	9.0	8.0	7.5	6.7	5.5	8.0	7.5	6.2	6.5
SW . . . . .	4.2	3.0	4.0	5.5	3.0	2.0	2.2	3.5	2.2	2.0	3.2	3.5
WSW . . . .	1.7	4.5	4.2	4.5	4.0	4.5	4.5	4.0	3.2	3.5	4.7	3.0
W . . . . .	2.2	1.0	0.5	0.5	0.5	0.5	1.5	1.5	2.2	2.5	3.0	3.0
WNW . . . .	5.0	4.0	3.0	3.5	2.7	3.0	4.2	6.5	5.0	5.0	5.0	3.0
NW . . . . .	1.0	0.5	1.7	3.0	3.5	5.5	4.7	3.0	4.0	4.0	1.5	2.5
NNW . . . .	5.0	5.5	6.2	7.5	8.2	6.5	7.0	7.5	6.0	5.5	4.5	5.0
Calm . . . .	2.5	1.0	1.0	1.0	1.0	1.0	3.0	1.0	2.0	2.0	1.0	4.0

## WIND-FREQUENCY. FEBRUARY.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N . . . . .	4.2	4.0	3.0	3.5	4.0	5.0	5.2	4.0	4.2	3.5	2.7	3.5
NNE . . . .	1.0	0.5	1.2	4.5	5.5	3.5	3.0	3.0	3.0	3.5	1.7	2.0
NE . . . . .	3.0	2.0	1.7	3.5	1.2	1.5	2.5	2.5	2.5	2.5	2.5	3.0
ENE . . . .	3.5	3.5	3.0	4.0	3.2	4.5	4.0	3.0	2.7	2.0	2.5	1.5
E . . . . .	3.5	4.5	4.7	5.0	6.2	4.5	5.5	5.5	4.0	3.5	3.0	2.5
ESE . . . . .	10.2	9.5	10.0	6.5	7.2	8.0	8.5	8.0	7.5	9.0	8.5	10.5
SE . . . . .	9.2	8.0	7.0	6.5	6.0	8.0	5.2	6.0	6.0	7.0	9.5	8.5
SSE . . . . .	7.5	7.0	7.7	6.0	8.0	5.5	7.2	6.0	6.5	6.5	6.5	7.0
S . . . . .	5.5	6.5	6.2	9.0	7.2	5.0	5.7	6.5	6.5	6.5	5.7	5.5
SSW . . . .	4.7	6.0	3.5	4.5	3.2	5.5	3.2	7.0	6.7	5.0	6.5	5.0
SW . . . . .	5.2	5.5	7.0	4.5	5.0	6.5	9.2	9.0	8.0	6.5	5.5	6.5
WSW . . . .	5.0	7.0	6.0	6.0	6.2	5.5	5.5	3.5	5.0	8.5	6.7	7.5
W . . . . .	3.5	2.0	3.5	5.0	6.0	4.5	3.5	4.0	3.0	2.5	3.0	2.5
WNW . . . .	5.7	8.0	6.0	3.0	4.5	5.5	6.7	4.5	4.7	5.5	6.7	8.0
NW . . . . .	4.7	3.0	4.0	4.5	3.0	2.5	3.5	5.5	5.5	5.5	6.2	5.0
NNW . . . .	5.7	6.0	6.2	6.0	6.2	6.5	5.2	6.0	5.5	3.5	4.5	4.5
Calm . . . .	2.0	2.0	3.0	3.0	3.0	3.0	1.0	1.0	2.0	4.0	2.5	2.0

## WIND-FREQUENCY. MARCH.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N . . . . .	2.5	4.0	3.5	2.0	3.0	2.5	1.7	1.5	2.5	3.5	2.2	1.5
NNE . . . .	2.7	2.5	4.0	4.5	4.2	5.0	2.7	2.0	3.0	3.5	3.2	3.0
NE . . . . .	3.2	3.5	4.7	5.5	5.2	5.5	6.0	4.0	4.0	3.5	3.7	3.5
ENE . . . .	5.7	7.0	2.7	2.5	2.7	3.5	2.2	4.0	3.2	3.5	5.7	6.0
E . . . . .	7.2	6.0	8.2	11.0	12.2	10.0	8.5	8.0	9.2	7.0	9.5	7.5
ESE . . . . .	8.2	8.5	10.5	11.0	9.2	10.5	11.7	10.0	8.5	11.5	7.7	11.5
SE . . . . .	10.0	8.0	6.7	8.0	9.7	8.0	7.0	7.5	5.2	8.0	7.7	12.0
SSE . . . . .	8.0	7.0	11.0	4.5	4.5	3.0	6.0	7.0	4.7	9.5	9.2	7.0
S . . . . .	5.2	7.5	7.5	8.0	9.5	8.5	12.5	16.5	13.2	10.0	8.5	7.5
SSW . . . .	6.7	6.0	6.0	8.0	7.2	8.0	3.5	5.0	8.0	8.0	8.5	8.0
SW . . . . .	6.0	5.0	4.7	6.0	3.0	4.5	5.2	6.5	4.5	3.0	3.0	3.0
WSW . . . .	4.7	3.0	3.2	3.0	5.0	6.5	6.2	2.0	3.5	4.5	3.7	4.5
W . . . . .	5.2	5.5	5.5	4.5	5.7	5.0	4.7	6.0	4.2	4.0	5.0	5.0
WNW . . . .	1.5	3.0	5.2	5.5	4.7	3.5	3.5	2.5	3.7	4.5	3.7	2.5
NW . . . . .	3.5	2.5	2.5	5.5	3.7	4.0	4.5	3.5	2.7	2.0	4.5	5.5
NNW . . . .	2.5	2.0	2.2	3.0	3.0	3.0	5.0	5.0	4.0	3.0	2.7	3.0
Calm . . . .	4.5	6.0	3.0	0.0	0.5	1.0	0.5	0	0.5	2.0	1.0	1.0

## WIND-FREQUENCY. APRIL.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N . . . . .	4.0	4.5	2.5	3.0	5.0	4.0	7.0	6.0	5.5	3.5	5.0	4.0
NNE . . . .	6.5	10.5	8.0	5.0	5.5	8.0	7.5	7.0	7.0	4.0	4.5	7.0
NE . . . . .	8.0	5.5	7.0	10.5	9.5	10.5	9.5	9.5	8.5	11.5	10.5	9.0
ENE . . . .	10.0	8.5	8.0	8.5	9.0	7.5	8.5	7.0	6.5	9.0	8.0	4.5
E . . . . .	5.5	7.0	7.0	8.5	7.5	8.0	5.5	7.0	9.5	5.5	6.5	9.5
ESE . . . .	7.0	7.5	11.0	6.0	9.5	7.0	7.5	7.0	9.5	11.5	7.5	7.5
SE . . . . .	8.5	6.5	8.0	8.5	5.5	7.0	6.0	9.5	7.0	7.0	9.0	11.5
SSE . . . .	8.0	7.0	6.0	5.5	6.0	6.5	6.0	4.0	5.0	7.0	8.0	7.0
S . . . . .	12.5	12.5	13.5	12.0	10.5	10.0	12.0	11.0	11.0	10.0	8.5	10.0
SSW . . . .	3.5	6.0	4.0	6.0	6.0	5.5	5.5	5.0	5.0	4.5	3.5	3.0
SW . . . . .	2.5	2.0	2.5	5.0	3.5	6.0	2.5	4.0	2.5	3.0	3.0	3.5
WSW . . . .	1.0	2.0	2.0	1.0	2.5	0.0	2.5	3.0	1.0	1.5	0.0	0.5
W . . . . .	2.0	2.5	1.5	2.0	0.5	0.5	1.0	1.0	2.0	1.5	2.0	2.5
WNW . . . .	2.5	2.0	1.5	1.5	3.5	3.0	2.0	1.5	1.0	3.5	3.5	2.5
NW . . . . .	2.5	2.0	2.0	4.0	3.5	3.0	4.5	2.0	4.5	3.0	2.5	2.0
NNW . . . .	4.0	2.0	2.5	2.0	1.5	2.5	2.5	3.5	3.5	4.0	5.0	5.0
Calm . . . .	2.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	0.0	1.0	1.0

## WIND-FREQUENCY. MAY.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N . . . . .	2.0	1.5	3.0	3.0	1.5	1.0	1.5	4.5	4.5	2.5	5.0	3.0
NNE . . . .	3.0	2.5	2.5	6.5	6.0	7.0	5.5	5.5	5.0	4.0	4.0	4.5
NE . . . . .	8.0	9.0	7.0	9.5	10.0	10.5	10.5	10.0	7.5	8.0	6.5	7.5
ENE . . . .	11.0	10.5	9.5	7.0	8.0	5.0	5.0	7.0	8.5	6.0	6.5	6.0
E . . . . .	11.0	12.0	13.5	10.5	13.0	14.5	15.5	13.5	14.0	16.5	13.5	13.0
ESE . . . .	11.0	10.5	11.5	14.0	11.5	14.5	13.0	13.5	13.5	11.5	10.0	14.0
SE . . . . .	8.5	10.5	11.0	10.0	10.0	7.5	7.5	3.5	6.5	9.0	12.5	10.0
SSE . . . .	5.0	6.0	4.5	6.0	5.5	4.0	5.5	8.5	8.0	4.5	3.5	4.0
S . . . . .	4.5	3.0	2.5	1.0	2.5	3.0	3.5	3.0	1.0	1.0	4.0	3.0
SSW . . . .	3.5	2.5	2.5	3.5	2.5	4.5	4.5	3.5	5.0	4.5	4.0	5.5
SW . . . . .	0.5	1.5	1.0	4.0	2.0	1.5	2.0	2.0	2.0	2.0	1.5	2.5
WSW . . . .	5.5	5.0	7.5	4.0	4.5	4.0	4.0	3.0	3.0	4.5	4.0	2.5
W . . . . .	3.5	4.5	3.5	4.0	3.5	4.5	4.5	4.5	3.0	3.5	2.5	2.0
WNW . . . .	4.5	3.5	4.0	2.0	2.0	2.0	1.5	2.5	2.0	4.5	5.5	5.0
NW . . . . .	5.0	3.5	3.5	4.0	5.0	3.0	6.0	5.0	6.0	5.0	4.5	4.0
NNW . . . .	3.5	3.0	4.0	4.0	4.5	5.5	2.0	3.0	1.5	4.0	3.0	6.5
Calm . . . .	1.0	1.0	1.0	0.0	1.0	0.0	1.0	0.0	1.0	1.0	2.0	0.0

## WIND-FREQUENCY. JUNE.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N . . . . .	5.5	6.0	3.0	6.5	5.0	5.5	7.5	5.0	6.0	5.5	5.5	6.5
NNE . . . .	6.0	3.5	4.0	4.0	4.5	5.0	4.0	6.0	6.0	7.0	7.5	8.5
NE . . . . .	3.0	4.0	5.0	2.0	1.5	1.5	3.5	3.5	3.5	3.5	4.0	3.0
ENE . . . .	3.5	4.0	1.5	3.0	2.5	2.5	1.5	3.0	4.5	4.5	3.0	3.0
E . . . . .	5.5	4.5	5.5	7.0	6.0	5.0	9.5	10.5	9.0	6.5	7.5	8.0
ESE . . . .	3.0	4.0	1.5	4.5	4.5	5.5	4.5	5.0	3.5	4.5	4.5	3.0
SE . . . . .	10.5	9.5	10.0	6.0	6.5	5.5	5.0	3.0	4.0	7.0	8.5	8.0
SSE . . . .	8.0	8.5	6.0	7.5	8.0	8.5	4.0	6.0	5.5	3.5	4.5	7.5
S . . . . .	3.0	2.5	8.0	6.0	5.0	5.5	8.5	6.5	6.5	6.0	2.5	4.5
SSW . . . .	6.5	7.0	6.0	8.5	7.0	9.0	4.5	4.5	3.5	9.0	6.5	6.5
SW . . . . .	5.0	6.5	5.0	4.0	7.0	7.0	8.0	5.5	6.0	4.5	4.5	5.5
WSW . . . .	9.5	5.5	5.5	4.5	3.5	5.5	8.0	7.5	7.0	3.5	4.5	6.5
W . . . . .	4.5	6.5	6.5	5.0	7.5	2.5	4.5	5.5	5.5	6.5	6.0	5.5
WNW . . . .	5.0	4.5	6.0	9.5	4.5	6.0	7.5	9.5	9.5	8.0	10.0	7.0
NW . . . . .	5.0	6.5	7.5	5.5	9.5	10.5	7.0	7.5	5.0	5.5	3.5	4.0
NNW . . . .	7.0	7.0	7.0	6.5	7.5	6.0	4.5	3.5	5.5	6.0	5.5	3.0
Calm . . . .	1.0	0.0	3.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	2.0	1.0

## WIND-FREQUENCY. JULY.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Midt.
N . . . . .	4.0	4.0	2.0	2.5	2.5	5.5	3.0	1.5	3.0	4.0	2.5	1.5
NNE . . . .	5.0	6.0	4.0	4.0	2.0	5.0	4.0	4.0	3.5	4.0	6.0	8.0
NE . . . . .	1.5	5.0	2.0	3.5	3.5	4.5	4.0	5.0	4.0	5.0	5.0	5.5
ENE . . . .	1.0	1.5	1.5	2.5	1.5	0.5	1.5	3.0	2.5	3.5	1.5	2.0
E . . . . .	3.0	4.0	2.0	2.5	2.0	2.0	2.5	4.0	4.0	2.0	2.0	1.5
ESE . . . .	4.0	3.0	3.0	2.0	2.5	3.5	3.0	2.5	1.5	4.0	2.0	3.0
SE . . . . .	7.5	6.0	5.0	1.5	3.5	2.5	4.5	5.0	6.5	6.5	7.0	6.0
SSE . . . .	4.5	6.0	4.5	7.0	8.0	8.0	4.5	6.0	6.5	4.0	6.0	8.0
S . . . . .	5.0	9.0	9.5	9.0	8.0	6.5	8.0	8.0	6.0	7.0	3.0	5.5
SSW . . . .	10.0	13.0	10.0	11.5	8.5	10.5	7.0	5.5	7.0	8.5	10.0	9.5
SW . . . . .	7.0	7.5	5.5	9.0	8.0	12.0	10.0	10.5	8.0	7.5	9.0	9.5
WSW . . . .	8.0	3.5	5.5	4.0	6.5	8.5	9.5	9.0	11.0	9.5	6.5	7.5
W . . . . .	5.0	8.5	4.5	8.5	8.5	5.0	6.0	9.0	5.5	8.5	6.5	6.5
WNW . . . .	3.5	4.0	3.5	5.0	2.5	4.0	4.0	6.0	5.0	6.0	5.0	4.5
NW . . . . .	3.5	5.5	3.5	3.0	2.0	4.5	3.0	3.0	2.5	4.0	3.0	2.5
NNW . . . .	3.5	4.5	5.5	9.5	6.0	5.5	2.0	4.5	4.0	7.0	3.5	6.5
Calm . . . .	4.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	3.0



## WIND-FREQUENCY. AUGUST.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.
N . . . . .	2.2	1.5	1.7	2.5	2.0	3.0	3.5	4.0	3.0	4.0	4.0	2.5
NNE . . . .	1.0	1.0	0.5	1.0	1.5	1.0	2.5	1.5	2.7	3.0	2.7	1.5
NE . . . . .	3.0	2.5	1.5	2.5	2.2	1.0	1.5	2.0	2.0	1.5	3.7	3.5
ENE . . . .	4.7	3.5	3.0	3.0	3.2	3.0	3.2	3.0	3.2	2.5	3.5	4.0
E . . . . .	3.7	4.5	3.2	4.0	4.5	5.5	5.5	7.5	6.5	6.0	5.5	4.5
ESE . . . .	5.7	4.5	6.0	4.0	5.7	7.0	7.0	5.5	5.5	4.0	4.5	6.0
SE . . . . .	2.7	5.5	3.5	5.0	3.5	2.0	3.0	2.0	2.0	4.0	4.2	4.0
SSE . . . .	5.0	5.0	3.2	2.5	1.7	2.0	1.5	1.0	3.7	4.0	3.7	3.5
S . . . . .	4.5	2.5	2.0	4.0	4.0	4.5	5.2	3.5	3.7	5.0	3.0	2.5
SSW . . . .	5.5	4.0	5.0	5.0	5.7	3.5	3.7	3.5	3.5	4.0	3.0	7.5
SW . . . . .	6.5	8.5	6.0	3.5	4.7	8.5	5.2	7.5	5.0	5.5	6.5	3.5
WSW . . . .	4.5	5.0	7.5	9.5	7.5	6.5	7.0	8.0	6.5	4.5	7.0	7.0
W . . . . .	11.0	9.0	7.0	6.5	6.0	6.0	6.5	4.0	3.7	7.5	8.7	9.5
WNW . . . .	5.7	6.0	7.2	6.0	6.7	8.5	10.2	10.0	10.2	7.5	5.7	9.0
NW . . . . .	9.0	8.0	11.7	12.0	10.7	11.0	9.7	10.5	11.0	12.0	9.2	5.5
NNW . . . .	3.0	6.0	4.7	7.0	7.0	5.0	4.0	3.5	5.0	3.0	1.7	3.0
Calm . . . .	3.0	3.0	6.0	1.0	3.0	3.0	0.0	3.0	2.0	0.0	3.0	4.0

## WIND-FREQUENCY. SEPTEMBER.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.
N . . . . .	3.5	2.5	3.5	6.0	4.0	3.0	3.0	2.5	2.0	3.0	4.5	4.5
NNE . . . .	2.5	2.5	3.0	2.5	3.5	2.5	4.0	3.5	4.0	4.0	2.0	4.0
NE . . . . .	3.0	3.0	3.0	4.5	4.0	2.5	2.0	2.5	2.0	3.0	2.5	1.5
ENE . . . .	4.0	5.0	4.0	3.5	4.0	4.5	6.0	5.5	5.0	4.0	3.5	4.0
E . . . . .	3.5	2.5	1.5	1.5	3.0	2.5	2.5	2.5	3.5	1.5	2.5	2.5
ESE . . . .	3.0	1.0	1.5	3.5	2.5	3.0	2.5	4.5	2.5	5.0	2.5	2.0
SE . . . . .	4.0	4.0	4.0	3.0	2.5	3.5	2.0	3.0	5.0	3.0	4.5	4.0
SSE . . . .	2.0	2.5	2.0	4.0	2.0	1.0	3.5	3.5	4.5	3.0	2.5	2.0
S . . . . .	2.5	4.5	3.5	2.5	4.0	7.5	3.5	4.5	4.5	3.5	3.5	4.0
SSW . . . .	5.0	3.0	3.5	3.0	4.0	1.0	3.5	3.5	3.0	4.5	3.0	2.5
SW . . . . .	2.5	2.0	3.0	2.5	3.5	3.0	4.0	5.5	3.5	3.0	2.0	3.0
WSW . . . .	6.5	6.0	5.5	6.0	6.5	6.5	6.5	6.0	5.0	6.0	6.5	7.0
W . . . . .	6.0	7.5	5.5	5.0	4.0	7.0	6.0	4.0	5.0	3.0	5.0	9.0
WNW . . . .	4.0	3.0	4.5	3.0	2.0	3.0	2.0	1.5	3.5	5.0	3.5	3.0
NW . . . . .	5.0	5.0	4.0	5.5	6.0	3.5	5.0	6.5	5.5	5.5	5.0	3.5
NNW . . . .	2.0	4.0	4.5	3.0	3.5	4.0	2.0	1.0	1.5	2.0	5.0	2.5
Calm . . . .	1.0	2.0	3.0	1.0	1.0	1.0	2.0	0.0	0.0	1.0	2.0	1.0

## WIND-DIRECTION. DIURNAL PERIOD.

In order to find the diurnal period of the wind's direction, it is necessary to have a long series of observations for discussion. This I have sought to obtain by collecting the numbers in the last table into the three following larger groups: 1, *the dark season*, comprising the months of October to February, during which the sun was altogether below the horizon, or — at the beginning and the end — only a short time above the horizon, but very low; 2, *the sunny season*, comprising the months of April to August, in which the sun was above the horizon during 24 hours; and 3, *the equinoctial months* March and September, in which there was regular day and night.

The following 3 Tables give the numbers belonging to these 3 groups.

## WIND-FREQUENCY. DARK SEASON. OCT.—FEBR. 15 MONTHS.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.
N . . . . .	20·3	23·0	20·4	23·0	24·2	26·5	27·4	23·0	20·4	21·0	22·1	18·5
NNE . . . .	16·1	17·5	20·1	25·5	28·1	25·5	27·5	23·0	26·6	20·0	18·4	16·0
NE . . . . .	21·4	18·5	20·4	25·0	25·4	22·0	17·9	16·0	22·2	24·5	26·4	21·5
ENE . . . .	27·0	23·0	25·7	28·5	22·9	24·0	24·9	30·0	25·4	27·5	27·2	28·5
E . . . . .	40·0	43·5	37·4	34·5	35·1	32·0	33·4	29·0	35·9	31·5	29·7	34·0
ESE . . . .	38·1	45·5	50·1	50·0	46·9	45·0	43·9	46·0	40·7	40·0	41·1	39·0
SE . . . . .	49·1	46·5	42·9	38·5	42·0	49·0	43·9	44·0	40·5	47·5	50·1	48·0
SSE . . . .	41·0	41·5	41·8	42·0	41·9	40·5	41·1	43·5	45·7	49·0	41·4	43·5
S . . . . .	38·4	35·5	38·6	36·0	36·3	37·5	36·3	37·5	34·8	36·5	36·6	38·5
SSW . . . .	25·9	26·0	24·7	27·0	25·4	27·5	23·0	27·0	27·6	23·5	25·1	28·5
SW . . . . .	19·3	21·5	23·9	24·5	21·2	21·5	23·1	24·0	22·6	21·0	19·1	20·5
WSW . . . .	17·7	20·5	19·6	16·5	19·7	18·5	19·7	18·5	18·6	23·5	24·0	24·0
W . . . . .	14·4	14·0	11·4	16·0	14·2	14·0	14·7	13·5	13·6	10·5	13·2	13·0
WNW . . . .	20·4	22·0	16·0	14·5	13·9	15·5	16·3	14·0	15·9	18·0	18·4	16·0
NW . . . . .	17·4	13·5	15·9	19·0	15·4	16·0	17·9	21·0	18·7	21·5	19·9	20·0
NNW . . . .	22·6	24·0	23·5	23·5	25·6	27·0	24·6	27·0	24·9	27·0	22·9	22·5

## WIND-FREQUENCY. SUNNY SEASON. APR.—AUG. 15 MONTHS.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.
N . . . . .	17·7	17·5	12·2	17·5	16·0	19·0	22·5	21·0	22·0	19·5	22·0	17·5
NNE . . . .	21·5	23·5	19·0	20·5	19·5	26·0	23·5	24·0	24·2	22·0	24·7	29·5
NE . . . . .	23·5	26·0	22·5	28·0	27·2	28·0	29·0	30·0	25·5	29·5	30·2	28·0
ENE . . . .	30·2	28·0	23·5	24·0	24·2	18·5	19·7	23·0	25·2	25·5	22·5	19·5
E . . . . .	28·7	32·0	31·2	32·5	33·5	35·0	38·5	42·5	43·0	36·5	35·0	37·0
ESE . . . . .	30·7	29·5	33·0	30·5	33·7	37·5	34·5	34·0	33·5	35·5	28·5	33·5
SE . . . . .	37·7	38·0	37·5	31·0	29·0	24·5	26·0	23·0	26·0	33·5	41·2	39·5
SSE . . . . .	30·5	32·5	24·2	28·5	29·2	29·0	21·5	25·5	28·7	23·0	25·7	30·0
S . . . . .	29·5	29·5	35·5	32·0	30·0	29·5	37·2	32·0	28·2	29·0	21·0	25·5
SSW . . . .	29·0	32·5	27·5	34·5	29·7	33·0	25·2	22·0	24·0	30·5	27·0	32·0
SW . . . . .	21·5	26·0	20·0	25·5	25·2	35·0	27·7	29·5	23·5	22·5	24·5	24·5
WSW . . . .	28·5	21·0	28·0	23·0	24·5	24·5	31·0	30·5	28·5	23·5	22·0	24·0
W . . . . .	26·0	31·0	23·0	26·0	26·0	18·5	22·5	24·0	19·7	27·5	25·7	26·0
WNW . . . .	21·2	20·0	22·2	24·0	19·2	23·5	25·2	29·5	27·7	29·5	29·7	28·0
NW . . . . .	25·5	25·5	28·2	28·5	30·7	32·0	30·2	28·0	29·0	29·5	22·7	18·0
NNW . . . .	21·0	22·5	23·7	29·0	26·5	24·5	15·0	18·0	19·5	24·0	18·7	24·0

## WIND-FREQUENCY. EQUINOCTIAL MONTHS. MARCH AND SEPT. 5 MONTHS.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.
N . . . . .	6·0	6·5	7·0	8·0	7·0	5·5	4·7	4·0	4·5	6·5	6·7	6·0
NNE . . . .	5·2	5·0	7·0	7·0	7·7	7·5	6·7	5·5	7·0	7·5	5·2	7·0
NE . . . . .	6·2	6·5	7·7	10·0	9·2	8·0	8·0	6·5	6·0	6·5	6·2	5·0
ENE . . . .	9·7	12·0	6·7	6·0	6·7	8·0	8·2	9·5	8·2	7·5	9·2	10·0
E . . . . .	10·7	8·5	9·7	12·5	15·2	12·5	11·0	10·5	12·7	8·5	12·0	10·0
ESE . . . . .	11·2	9·5	12·0	14·5	11·7	13·5	14·2	14·5	11·0	16·5	10·2	13·5
SE . . . . .	14·0	12·0	10·7	11·0	12·2	11·5	9·0	10·5	10·2	11·0	12·2	16·0
SSE . . . . .	10·0	9·5	13·0	8·5	6·5	4·0	9·5	10·5	9·2	12·5	11·7	9·0
S . . . . .	7·7	12·0	11·0	10·5	13·5	16·0	16·0	21·0	17·7	13·5	12·0	11·5
SSW . . . .	11·7	9·0	9·5	11·0	11·2	9·0	7·0	8·5	11·0	12·5	11·5	10·5
SW . . . . .	8·5	7·0	7·7	8·5	6·5	7·5	9·2	12·0	8·0	6·0	5·0	6·0
WSW . . . .	11·2	9·0	8·7	9·0	11·5	13·0	12·7	8·0	8·5	10·5	10·2	11·5
W . . . . .	11·2	13·0	11·0	9·5	9·7	12·0	10·7	10·0	9·2	7·0	10·0	14·0
WNW . . . .	5·5	6·0	9·7	8·5	6·7	6·5	5·5	4·0	7·2	9·5	7·2	5·5
NW . . . . .	8·5	7·5	6·5	11·0	9·7	7·5	9·5	10·0	8·2	7·5	9·5	9·0
NNW . . . .	4·5	6·0	6·7	6·0	6·5	7·0	7·0	6·0	5·5	5·0	7·7	5·5

By means of Lambert's formula I have computed from these numbers: 1, the N —, E —, S — and W — components of the winds' direction for the different hours of observation, and their means for the day; 2, the deviations from the daily means, for each hour; 3, the difference N—S, and E—W; and from these, 4, the resultant direction (Dir.) and frequency (Res.) for each hour and for the daily means. The direction is given both in the usual quadrantal manner and also reckoned from North over East round the horizon. From the last numbers are deduced in the column „shift“ the shifting of the direction of the wind, a + meaning a shifting with the sun (veering), and a — against the sun (backing)<sup>1</sup>.

## WIND-FREQUENCY-COMPONENTS. DARK SEASON. OCT.—FEBR.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.	Mean
N . . .	101·6	102·6	102·3	115·8	116·7	117·0	116·6	116·8	112·7	114·4	110·5	100·5	110·6
E . . .	171·9	175·4	175·9	177·8	174·1	171·3	166·9	169·0	169·0	171·2	162·7	168·3	171·1
S . . .	169·9	171·2	174·0	169·8	168·7	174·5	167·3	175·4	169·9	176·2	171·9	177·6	172·2
W . .	94·1	97·2	90·9	94·7	90·7	92·8	95·2	96·0	94·8	98·2	98·3	98·1	95·1

DEVIATIONS FROM DAILY MEAN.													
N . . .	— 9·0	— 8·0	— 8·4	5·2	6·1	6·4	6·0	6·2	2·1	3·8	— 0·2	— 10·2	
E . . .	0·7	4·2	4·8	6·7	2·9	0·2	— 4·2	— 2·1	— 2·1	0·1	— 8·4	— 2·8	
S . . .	— 2·3	— 1·0	1·8	— 2·4	— 3·5	2·3	— 4·9	3·2	— 2·3	4·0	— 0·3	5·4	
W . .	— 1·0	2·1	— 4·2	— 0·4	— 4·4	— 2·3	0·1	0·9	— 0·3	3·2	3·2	3·0	

N—S.	— 6·7	— 7·1	10·2	7·6	9·6	4·0	10·9	3·0	4·4	— 0·2	0·1	— 15·6	— 61·6
E—W	1·7	2·1	9·0	7·0	7·4	2·5	— 4·3	— 3·0	— 1·8	— 3·1	— 11·6	— 5·8	76·0

Dir.	S 14°E	S 17°E	S 41°E	N 43°E	N 38°E	N 31°E	N 21°W	N 46°W	N 22°W	S 86°W	N 89°W	S 20°W	S 51°E
N to S	166°	163°	139°	43°	38°	31°	339°	314°	338°	266°	271°	200°	
Shift	— 3°	— 24°	— 96°	— 5°	— 7°	— 52°	— 25°	+ 24°	— 72°	+ 5°	— 71°	— 34°	
Res.	6·9	7·4	13·6	10·3	12·1	4·7	11·8	4·3	4·8	3·1	11·6	16·6	97·8

<sup>1</sup> Regarding the method of computation see Dr. Julius Hann's Lehrbuch der Meteorologie, p. 402.

## WIND-FREQUENCY-COMPONENTS. SUNNY SEASON. APR.—AUG.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.	Mean
N . . .	111.2	114.8	105.0	121.6	116.1	124.2	117.1	120.9	121.2	124.8	119.5	117.6	117.8
E . . .	148.2	151.8	142.4	143.3	145.4	144.7	144.7	151.6	153.9	154.6	151.9	156.5	149.1
S . . .	149.0	154.2	147.3	150.7	145.0	154.6	143.4	137.7	135.6	140.6	135.5	150.1	145.3
W . .	124.3	126.4	123.1	131.9	127.4	132.2	130.8	135.4	125.4	134.1	124.4	125.5	128.4
DEVIATIONS FROM DAILY MEAN.													
N . . .	- 6.6	- 3.1	-12.8	- 3.8	- 1.8	- 6.4	- 0.7	3.1	3.3	7.0	1.7	- 0.2	
E . . .	- 0.9	2.7	- 6.7	- 5.8	- 3.7	- 4.4	- 4.4	2.5	4.8	5.6	2.8	7.4	
S . . .	3.7	8.8	2.0	5.4	- 0.3	9.3	- 1.9	- 7.6	- 9.7	- 4.7	- 9.8	4.7	
W . .	- 4.1	- 2.1	- 5.4	3.5	- 1.0	3.8	2.3	7.0	- 3.0	5.7	- 4.0	- 2.9	
N-S.	-10.3	-11.9	-14.8	- 1.6	- 1.5	- 3.0	1.2	10.7	13.0	11.6	11.5	- 4.9	-27.5
E-W	3.2	4.8	- 1.3	- 9.3	- 2.7	- 8.2	- 6.7	- 4.5	7.8	- 0.1	6.8	10.3	20.7
Dir.	S17°E	S22°E	S5°W	S80°W	S61°W	S70°W	N80°W	N23°W	N31°E	N1°W	N31°E	S64°E	S37°E
N to S	163°	158°	185°	260°	241°	250°	280°	337°	31°	359°	31°	116°	143°
Shift	- 5°	+ 27°	+ 75°	- 19°	+ 9°	+ 30°	+ 57°	+ 54°	- 32°	+ 32°	+ 85°	+ 47°	
Res.	10.8	12.8	14.9	9.4	3.1	8.7	6.8	11.6	15.2	11.6	13.4	11.4	34.4

## WIND-FREQUENCY-COMPONENTS. MARCH AND SEPTEMBER.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.	Mean
N . . .	31.2	34.2	36.0	40.4	38.6	35.4	35.0	31.8	32.0	34.5	36.0	33.4	34.9
E . . .	50.1	47.0	47.7	52.2	52.7	50.6	49.9	50.8	48.1	50.7	49.4	52.7	50.2
S . . .	52.3	49.6	52.7	51.3	52.0	51.6	54.4	63.1	56.7	59.0	53.4	54.6	54.2
W . .	44.9	42.9	44.2	46.0	44.8	46.8	46.1	42.2	41.5	41.7	43.7	46.5	44.3
DEVIATIONS FROM DAILY MEAN.													
N . . .	- 3.7	- 0.7	1.1	5.6	3.7	0.6	0.1	- 3.0	- 2.9	- 0.4	1.2	- 1.5	
E . . .	- 0.1	- 3.2	- 2.5	2.1	2.6	0.4	- 0.2	0.7	- 2.1	0.6	- 0.8	2.5	
S . . .	- 1.9	- 4.6	- 1.5	- 2.9	- 2.3	- 2.6	0.2	8.9	2.5	4.7	- 0.8	0.4	
W . .	0.6	- 1.4	± 0.0	1.7	0.5	2.5	1.9	- 2.0	- 2.8	- 2.5	- 0.6	2.2	
N-S.	- 1.8	3.9	2.6	8.5	6.0	3.2	- 0.1	-11.9	- 5.4	- 5.1	2.0	- 1.9	-19.4
E-W	- 0.7	- 1.8	- 2.5	0.5	2.1	- 2.1	- 2.1	2.7	0.7	3.1	- 0.2	0.3	5.9
Dir.	S20°W	N24°W	N44°W	N2°E	N19°E	N34°W	S88°W	S13°E	S7°E	S31°E	N5°W	S10°E	S18°E
N to S	200°	336°	316°	2°	19°	326°	268°	167°	173°	149°	355°	170°	
Shift	+ 136°	- 20°	+ 46°	+ 17°	- 53°	- 58°	- 101°	+ 6°	- 24°	- 154°	+ 175°	+ 30°	
Res.	1.9	4.3	3.6	8.5	6.4	3.8	2.1	12.2	5.4	6.0	2.0	1.9	20.3

In the *dark season* the wind shifts generally *against* the sun. Only from 4 p. m. to 6 p. m. and from 8 p. m. to 10 p. m. does it veer with the sun. Sum of backing  $389^\circ$ , sum of veering  $29^\circ$ .

The North component exceeds the South component continually from 7 a. m. to 8 p. m. The South component prevails continually over the North component from 8 p. m. to 7 a. m.

The East component prevails over the West component continually from Midnight or 1 a. m. to Noon or 1 p. m., and the West component prevails continually over the East component from 1 p. m. to 1 a. m.

The periodical winds make the prevailing wind of the dark season more northerly during the hours about noon, more southerly during the midnight-hours, more easterly during the first part of the day, more westerly after noon until midnight.

In the *sunny season* the wind veers generally *with* the sun. It backs only from 2 a. m. to 4 a. m., from 8 a. m. to 10 a. m. and from 6 p. m. to 8 p. m. Total veering  $416^\circ$ , total backing  $56^\circ$ .

The South component prevails over the North component continually from 11 p. m. to 1 p. m. The North component predominates continually from 1 p. m. to 11 p. m.

The West component prevails over the East component continually from 5 a. m. to 5 p. m. and the East component prevails (with one exception at 8 p. m.) from 5 p. m. to 5 a. m.

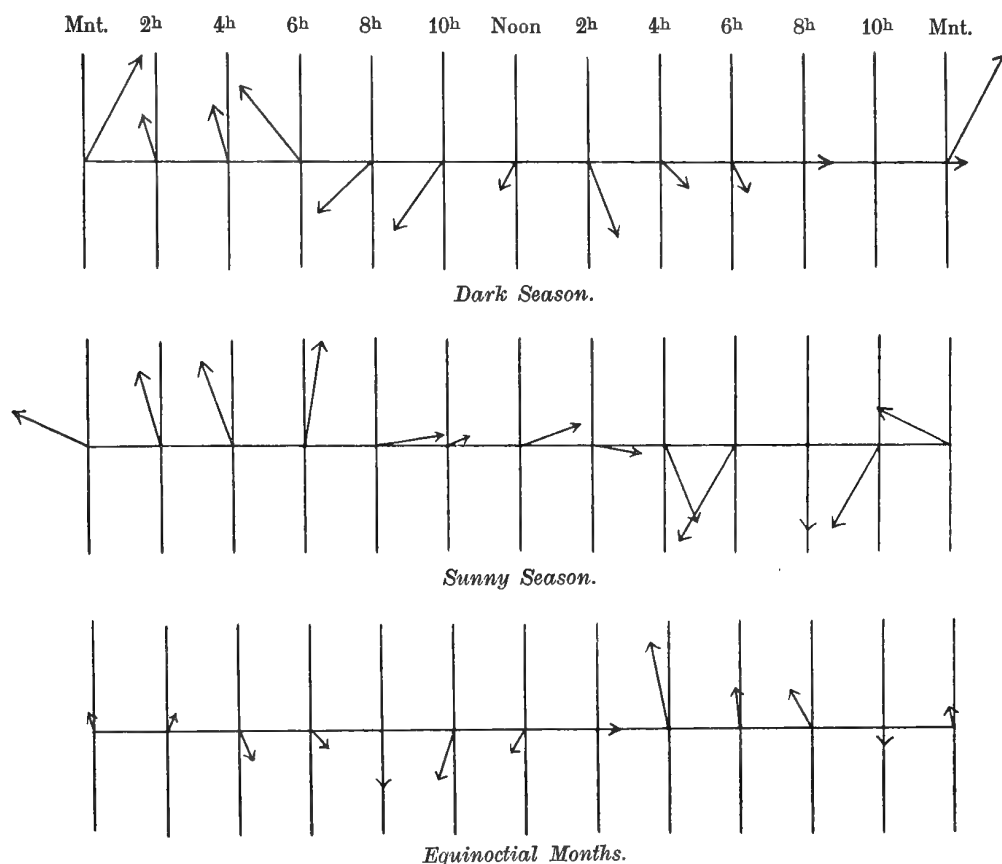
The periodical winds make the prevailing wind of the season more southerly during the night and forenoon, more northerly during the afternoon, more westerly during the day, and more easterly during the afternoon and night.

In the *equinoctial months* the wind shifts generally *with* the sun during the night and morning, and *against* the sun from 10 a. m. to 10 p. m. Total veering  $410^\circ$  and total backing  $410^\circ$ .

The North component prevails over the South component continually from 3 a. m. to 1 p. m., and the South component over the North from 1 p. m. to 3 a. m., except at 10 p. m.

The periodical winds make the prevailing wind of the months more northerly in the morning and more southerly in the latter half of the day, more easterly before noon and in the afternoon, more westerly during the night and about noon.

The diurnal period of the winds' direction is a phenomenon which still awaits an explanation. The observations made at the Fram's station give the winds as



they were blowing over a homogeneous flat surface and far from any elevations or open seas. The tables given and the results which I have set forth may, I hope, be of value in a thorough discussion of the subject. The different direction of the shifting of the wind in the dark and in the sunny season, seems to be of importance for the solution of the problem.

#### WIND-DIRECTION. ANNUAL PERIOD.

The following Table gives the number of observed winds referred to 16 points of the compass, true direction, the number of calms noted, and the sum of the observations made, for each month of the voyage of the Fram from the 1st October, 1893, to the 19th August, 1896. The maxima and minima are distinguished by heavier type.

## WIND-FREQUENCY.

		N	NNE	NE	ENE	E	ESE	SE	SSE	S
October	1893	17·5	13·5	9·5	2·5	3·0	3·0	4·0	7·0	7·0
	94	10·0	6·0	17·5	29·5	45·0	79·5	48·5	25·5	15·5
	95	9·0	24·0	27·5	34·5	29·5	30·5	42·0	39·0	37·0
November	1893	10·5	6·5	1·0	0	3·0	12·5	24·5	29·0	20·5
	94	18·5	13·5	24·0	18·0	40·0	44·5	31·0	31·5	4·5
	95	40·5	21·5	34·0	24·0	43·0	29·0	11·5	10·5	31·5
December	1893	4·0	15·0	9·5	8·0	3·5	20·5	31·0	25·0	17·5
	94	3·0	9·5	9·5	45·0	58·5	76·5	67·5	41·5	5·5
	95	31·5	41·5	46·0	39·0	56·0	21·5	27·0	29·0	37·0
January	1894	2·5	4·5	3·5	4·5	9·5	18·0	26·0	24·0	34·5
	95	6·5	10·0	10·0	20·5	11·0	6·0	24·0	52·5	66·5
	96	35·5	33·0	19·0	36·0	45·0	30·0	32·5	29·0	7·0
February	1894	10·0	8·0	5·5	4·0	2·5	6·0	9·5	15·0	15·5
	95	9·0	6·0	8·0	11·0	34·0	73·0	34·5	29·0	32·0
	96	18·0	10·5	10·5	18·5	13·5	18·5	33·5	22·5	13·0
March	1894	13·0	13·5	7·0	6·5	1·5	5·0	19·0	12·5	14·0
	95	0·5	0·5	4·5	14·0	87·0	86·0	37·5	19·0	35·0
	96	4·0	12·0	34·0	22·0	14·5	23·0	37·5	37·5	67·5
April	1894	4·5	8·0	21·0	24·5	37·0	62·5	45·0	39·0	68·0
	95	29·0	35·5	55·0	14·5	18·0	12·0	21·5	19·5	26·0
	96	20·5	37·5	33·5	56·0	32·0	24·0	27·5	17·5	39·5
May	1894	2·5	15·0	38·5	49·5	87·5	85·0	34·0	28·5	3·5
	95	9·5	21·5	32·0	23·0	59·0	37·0	50·5	22·0	11·0
	96	21·0	20·0	33·5	17·5	14·0	26·5	22·0	14·5	17·5
June	1894	27·5	19·0	10·0	2·5	14·0	10·0	19·0	19·5	31·0
	95	19·0	41·5	22·5	21·5	37·5	22·0	41·0	13·0	4·0
	96	21·0	6·5	5·5	12·5	33·0	16·0	23·5	17·0	29·5
July	1894	7·0	5·0	8·0	1·0	0	1·5	20·5	25·5	23·0
	95	24·5	25·5	27·5	13·5	9·0	8·0	19·5	22·0	22·0
	96	5·0	11·0	6·5	13·5	8·5	16·0	23·0	31·5	31·5
August	1894	17·5	8·5	14·0	22·5	16·0	14·5	11·5	5·0	12·0
	95	5·5	0·5	0	4·5	34·0	33·0	17·0	16·0	21·5
	96	5·5	5·5	6·5	6·5	5·5	9·0	6·5	8·0	5·5
September	1894	28·5	27·5	25·5	29·5	14·5	15·0	19·5	19·0	26·5
	95	13·5	10·5	8·0	23·5	15·0	18·0	23·0	13·5	21·5



## OBSERVED.

		SSW	SW	WSW	W	WNW	NW	NNW	Calm	Sum
October	1893	5.0	10.5	19.0	7.5	16.0	23.5	21.5	10	180
	94	8.0	11.0	11.0	10.0	9.0	19.0	14.0	12	371
	95	21.0	17.0	12.0	14.0	11.0	11.0	8.0	5	372
November	1893	11.5	11.5	10.0	11.5	5.0	1.5	7.5	14	180
	94	21.0	24.0	24.5	11.5	7.0	17.5	27.0	2	360
	95	20.5	19.5	5.0	6.5	9.0	17.0	29.0	8	360
December	1893	16.5	8.0	1.5	4.0	2.0	1.0	2.0	14	183
	94	18.0	12.0	7.0	12.0	0.5	1.0	5.0	0	372
	95	2.0	3.0	2.0	1.0	2.0	12.0	13.5	8	372
January	1894	28.0	7.0	12.0	2.0	0.5	1.0	0.5	8	186
	95	35.0	22.5	18.5	14.5	41.5	17.5	4.5	4	365
	96	3.5	2.0	4.0	0.5	7.5	15.5	69.0	3	372
February	1894	11.5	23.5	18.5	4.0	8.0	8.5	7.0	11	168
	95	25.0	12.0	12.0	12.0	19.0	8.5	6.0	4	335
	96	13.0	19.5	23.5	22.0	35.0	27.5	46.0	3	348
March	1894	9.0	8.0	6.5	15.5	15.0	18.0	17.0	5	186
	95	18.5	10.5	22.0	20.0	9.5	1.5	0	4	370
	96	47.0	28.0	14.5	9.5	4.5	6.0	4.5	6	372
April	1894	23.5	1.5	3.5	4.5	6.0	2.0	0.5	5	356
	95	18.0	34.0	9.0	11.5	12.5	22.0	14.0	7	359
	96	16.0	4.5	4.5	3.0	8.5	11.5	23.5	1	360
May	1894	2.5	2.5	7.5	3.0	0.5	0	1.0	7	368
	95	13.5	10.5	17.0	19.0	10.5	20.0	13.0	3	372
	96	30.0	10.0	27.0	21.5	28.0	34.5	30.5	0	368
June	1894	25.0	22.0	28.5	34.5	28.0	30.0	28.5	9	358
	95	5.0	12.0	13.0	17.0	41.5	29.0	18.5	1	359
	96	48.5	34.5	29.5	14.5	17.5	18.0	21.0	0	348
July	1894	16.5	14.0	28.0	70.5	76.5	50.0	11.0	14	372
	95	42.5	41.0	37.5	36.0	13.5	6.0	20.0	2	370
	96	43.5	40.5	23.0	11.5	11.5	4.0	13.5	0	294
August	1894	33.0	37.0	28.5	39.5	35.5	29.5	18.5	28	371
	95	14.0	31.0	42.0	29.0	32.5	60.0	26.5	4	371
	96	3.5	1.5	5.0	8.5	12.5	15.5	4.0	0	109
September	1894	14.5	13.0	10.0	19.5	17.5	43.5	27.5	8	359
	95	25.0	24.5	64.0	47.5	21.0	16.5	7.5	7	360

Dividing the numbers in the horizontal rows of the above Table by the respective "Sums", and multiplying by 1000, we obtain the frequency of the winds and calms

## WIND-FREQUENCY.

		N	NNE	NE	ENE	E	ESE	SE	SSE
October	1893	97.2	75.0	52.8	13.9	16.7	16.7	22.2	38.9
	94	27.0	16.2	47.2	79.5	121.3	214.3	130.7	68.7
	95	24.2	64.5	73.9	92.7	79.5	82.0	112.9	104.8
November	1893	58.3	36.1	5.6	0	16.7	69.4	136.1	161.1
	94	51.4	37.5	66.7	50.0	111.1	123.6	86.1	87.5
	95	112.5	59.7	94.4	66.7	119.4	80.6	31.7	29.2
December	1893	21.9	82.0	51.9	43.7	19.1	112.0	169.4	136.6
	94	8.1	25.5	25.5	121.0	157.3	205.6	181.5	111.6
	95	84.7	111.6	123.7	104.8	150.5	57.8	72.6	78.0
January	1894	13.4	24.2	18.8	24.2	51.1	96.8	139.8	129.0
	95	17.8	27.4	27.4	56.2	30.1	16.4	65.8	143.8
	96	95.4	88.7	51.1	96.8	121.0	80.6	87.4	78.0
February	1894	59.5	47.6	32.7	23.8	14.9	35.7	56.6	89.3
	95	26.9	17.9	23.9	32.8	101.5	218.0	103.0	86.6
	96	51.7	30.2	30.2	53.2	38.8	53.2	96.3	64.7
March	1894	69.9	72.6	37.6	34.9	8.1	26.9	102.2	67.2
	95	1.4	1.4	12.2	37.8	235.1	232.4	101.4	51.4
	96	10.8	32.3	91.4	59.2	38.9	61.8	100.9	100.9
April	1894	12.6	22.5	59.1	68.8	103.9	175.6	126.4	109.6
	95	80.8	98.9	153.2	40.4	50.1	33.4	59.9	54.3
	96	56.9	102.8	93.1	155.6	88.9	66.7	76.4	48.6
May	1894	6.8	40.8	104.6	134.5	237.8	231.0	92.4	77.4
	95	25.5	57.8	86.0	61.8	158.6	99.5	135.8	59.1
	96	57.1	54.4	91.1	47.6	38.1	72.0	59.8	39.4
June	1894	76.8	53.1	28.0	7.0	39.1	28.0	53.1	54.5
	95	52.9	115.6	62.7	59.9	104.5	61.3	114.2	36.2
	96	60.4	18.7	15.8	35.9	94.8	46.0	67.5	48.9
July	1894	18.8	13.4	21.5	2.7	0	4.0	55.1	68.6
	95	66.2	68.9	74.3	36.5	24.3	21.6	52.7	59.5
	96	17.0	37.4	22.1	45.9	28.9	54.4	78.2	107.1
August	1894	47.2	22.9	37.7	60.7	43.1	39.1	31.0	13.5
	95	14.8	1.4	0	12.1	91.6	89.0	45.8	43.1
	96	50.5	50.5	59.7	59.7	50.5	82.6	59.7	73.4
September	1894	79.4	76.6	71.0	82.2	40.4	41.8	54.3	52.9
	95	37.5	29.2	22.2	65.3	41.9	51.4	63.9	37.5

referred to 1000 observations, or "per mille". The numbers calculated in this manner are given in the following Table.

## 1000 OBSERVATIONS.

		S	SSW	SW	WSW	W	WNW	NW	NNW	Calm
October	1893	38.9	27.8	58.3	105.6	41.7	88.9	<b>130.6</b>	119.4	55.6
	94	41.8	21.6	29.7	29.7	27.0	24.3	51.0	37.7	32.3
	95	99.8	56.5	45.7	32.3	37.6	29.6	29.6	<b>21.5</b>	13.4
November	1893	113.9	63.9	63.9	55.6	63.9	27.8	8.3	41.7	77.8
	94	<b>12.5</b>	58.3	66.7	68.1	31.9	19.4	48.6	75.0	5.6
	95	87.5	56.9	54.2	<b>13.9</b>	18.1	25.0	47.2	80.5	22.2
December	1893	95.6	90.2	43.7	8.2	21.9	11.0	5.5	11.0	76.5
	94	14.8	48.5	32.3	18.9	32.3	<b>1.4</b>	2.7	13.5	0
	95	99.5	5.4	8.0	5.4	<b>2.7</b>	5.4	32.3	36.3	21.5
January	1894	<b>185.5</b>	150.5	37.6	64.5	10.8	<b>2.7</b>	5.4	<b>2.7</b>	43.0
	95	<b>182.2</b>	95.9	61.6	50.7	39.7	113.7	47.9	<b>12.3</b>	11.0
	96	18.8	9.4	5.4	10.8	1.3	20.2	41.7	<b>185.5</b>	8.1
February	1894	92.3	68.5	<b>139.9</b>	110.1	23.8	47.6	50.6	41.7	65.5
	95	95.5	74.6	35.8	35.8	35.8	56.7	25.4	<b>17.9</b>	11.9
	96	37.4	37.4	56.0	67.5	63.2	100.6	79.0	<b>132.2</b>	8.6
March	1894	75.3	48.4	43.0	34.9	83.3	80.6	96.8	91.4	26.9
	95	94.6	50.0	28.4	59.5	54.1	25.7	4.1	<b>0</b>	10.9
	96	<b>181.5</b>	126.3	75.5	39.1	25.6	12.1	16.2	12.1	16.2
April	1894	<b>191.0</b>	66.0	4.2	9.8	12.6	16.9	5.6	<b>1.4</b>	14.1
	95	72.4	50.1	94.7	<b>25.0</b>	32.0	34.8	61.3	39.1	19.5
	96	109.7	44.4	12.5	12.5	<b>8.3</b>	23.6	31.9	65.3	2.8
May	1894	9.5	6.8	6.8	20.4	8.2	1.4	<b>0</b>	2.7	19.0
	95	29.6	36.3	28.2	45.7	51.1	28.2	53.8	34.9	8.1
	96	47.6	81.5	<b>27.2</b>	73.4	58.4	76.1	<b>93.8</b>	82.9	0
June	1894	86.6	69.8	61.5	79.6	<b>96.4</b>	78.2	83.8	79.6	25.1
	95	<b>11.1</b>	13.9	33.4	36.2	47.4	<b>115.6</b>	80.8	51.5	2.8
	96	84.8	<b>139.4</b>	99.1	84.8	41.7	50.3	51.7	60.4	0
July	1894	61.8	44.4	37.6	75.3	189.5	<b>205.6</b>	134.4	29.6	37.6
	95	59.5	<b>114.9</b>	110.8	101.4	97.3	36.5	<b>16.2</b>	54.1	5.4
	96	107.1	<b>148.0</b>	137.8	78.0	39.1	39.1	<b>13.6</b>	45.9	0
August	1894	32.3	88.9	99.7	76.8	<b>106.5</b>	95.7	79.5	49.9	75.5
	95	58.0	37.7	83.6	113.2	78.2	87.6	<b>162.0</b>	71.4	10.8
	96	50.5	32.2	<b>13.8</b>	45.9	78.0	114.7	<b>142.2</b>	36.7	0
September	1894	73.8	40.4	36.2	<b>27.9</b>	54.3	48.8	<b>121.2</b>	76.6	22.3
	95	59.7	69.4	68.1	<b>177.8</b>	131.7	58.3	45.8	<b>20.8</b>	19.4

Taking the difference between the numbers in the above Table for each directly-opposed wind-direction, as S—N, SSE—NNW, etc., and tabulating the positive differences, we obtain the following Table. This Table shows what we call the *windward Side of the Wind-Rose*. It gives a general view of the prevailing winds in the different months.

THE WINDWARD SIDE OF THE WIND-ROSE.

	October			November			December			January		
	1893	1894	1895	1893	1894	1895	1893	1894	1895	1894	1895	1896
N .....	58.3				38.9	25.0						76.6
NNE .....	47.2		8.0			2.8			106.2			79.3
NE .....		17.5	28.2		0	40.2	8.2		115.7			45.7
ENE .....		49.8	60.4			52.8			99.4		5.5	86.0
E .....		94.3	41.9		79.2	101.3		124.7	147.8			119.7
ESE .....		190.0	52.4	41.6	104.2	55.6	101.0	204.2	52.4	94.1		60.4
SE .....		79.7	83.3	127.8	37.5		163.9	178.8	40.3	134.4	17.9	45.7
SSE .....		31.0	83.3	119.4	12.5		125.6	98.1	41.7	126.3	131.5	
S .....		14.8	75.3	55.6			73.7	6.7	14.8	172.1	164.4	
SSW .....		5.4		27.8	20.8		8.2	23.0		126.3	68.5	
SW .....	5.5			58.3	0		35.5	6.8		18.8	34.2	
WSW .....	91.7			55.6	18.1			102.1		40.3		
W .....	25.0			47.2			2.8			40.3	9.6	
WNW .....	72.2										97.3	
NW .....	108.4					15.5						
NNW .....	80.5					51.3						107.5

	February			March			April			May		
	1894	1895	1896	1894	1895	1896	1894	1895	1896	1894	1895	1896
N .....			14.3					8.4				8.9
NNE .....				24.2				48.8				
NE .....						15.9	54.9	58.5	80.6	97.8	57.8	63.9
ENE .....				0		20.1	59.0	15.4	143.1	114.1	16.1	
E .....		65.7			181.0	13.3	91.3	18.1	80.6	229.6	107.5	
ESE .....		161.3			206.7	49.7	158.7		43.1	229.6	71.3	
SE .....	6.0	77.6	17.3	5.4	97.3	84.7	120.4		44.5	92.4	82.0	
SSE .....	47.6	68.7			51.4	88.8	108.2	15.2		74.7	24.2	
S .....	32.8	68.6		5.4	93.2	170.7	178.4		52.8	2.7	4.1	
SSW .....	20.9	56.7	7.2		48.6	94.0	43.5					27.1
SW .....	107.2	11.9	25.8	5.4	16.2							
WSW .....	86.3	3.0	14.3	0	21.7							25.8
W .....	8.9		24.4	75.2								20.3
WNW .....	11.9		47.4	53.7				1.4				4.1
NW .....			67.5					1.4				34.0
NNW .....				24.2					16.7			43.5

## THE WINDWARD SIDE OF THE WIND-ROSE.

	June			July			August			September	
	1894	1895	1896	1894	1895	1896	1894	1895	1896	1894	1895
N . . . . .		41·8			6·7		14·9		0	5·6	
NNE . . . . .		101·7							18·3	36·2	
NE . . . . .		29·3							45·9	34·8	
ENE . . . . .		23·7							13·8	54·3	
E . . . . .		57·1	53·1					13·4			
ESE . . . . .								1·4			
SE . . . . .		33·4	5·8		36·5	64·6					18·1
SSE . . . . .					5·4	61·2			36·7		16·7
S . . . . .	9·8		24·0	43·0		90·1		43·2	0		22·2
SSW . . . . .	16·7		120·7	31·0	46·0	110·6	66·0	36·3			40·2
SW . . . . .	33·5		83·3	16·1	36·5	115·7	62·0	83·6			45·9
WSW . . . . .	72·6		48·9	72·6	64·9	32·3	16·1	101·1			112·5
W . . . . .	57·3			189·5	73·0	10·2	63·4		27·5	13·9	90·0
WNW . . . . .	50·1	54·3	4·3	201·6	14·9	15·3	56·6		32·1	7·0	6·9
NW . . . . .	30·7			79·3			48·5	116·2	82·5	66·9	
NNW . . . . .	25·1	14·9	11·5	39·0			36·4	28·3		23·7	

As the place of observation is not the same in the same month of the different years, we cannot take the means of the frequency-numbers for the 3 (or 2) years in order to get a fuller representation of the monthly distribution of the winds. There is apparently a change in the direction of the prevailing winds along the track of the Fram. The winds have mostly a tendency to change their direction *against* the sun, the farther West the place of observation lies. The fuller discussion of this subject must be deferred until we can take into consideration the prevailing movement of the air in each month, and the distribution of air-pressure.

### THE CONSTANCY AND CHANGE OF THE DIRECTION OF THE WINDS.

We see in the Tables of observations that the direction of the wind is either the same or changes, from one hour of observation to the next. The change goes either with the Sun (veering) or against the Sun (backing). Counting, for each month, the number of cases in which the wind direction from one hour of observation to the next is (1) constant, (2) veering, and (3) backing, and reducing the number of cases to 100, we obtain the following Table.

		p.ct.					p.ct.		
		1.	2.	3.			1.	2.	3.
January	1894 . . . . .	43	26	31	July	1894 . . . . .	52	23	25
	95 . . . . .	50	19	31		95 . . . . .	38	31	31
	96 . . . . .	51	22	27		96 . . . . .	33	27	40
February	1894 . . . . .	38	26	36	August	1894 . . . . .	43	29	28
	95 . . . . .	43	28	29		95 . . . . .	38	30	32
	96 . . . . .	43	25	32					
March	1894 . . . . .	37	22	41	September	1894 . . . . .	45	28	27
	95 . . . . .	55	23	22		95 . . . . .	37	31	32
	96 . . . . .	46	30	24					
April	1894 . . . . .	53	22	25	October	1893 . . . . .	49	27	24
	95 . . . . .	51	24	25		94 . . . . .	51	21	28
	96 . . . . .	49	27	24		95 . . . . .	38	28	34
May	1894 . . . . .	59	19	22	November	1893 . . . . .	47	26	27
	95 . . . . .	51	20	29		94 . . . . .	44	27	29
	96 . . . . .	40	25	35		95 . . . . .	46	25	29
June	1894 . . . . .	40	32	28	December	1893 . . . . .	60	25	15
	95 . . . . .	41	24	35		94 . . . . .	58	20	22
	96 . . . . .	38	29	33		95 . . . . .	51	20	29

Taking the means for the months, seasons and year, we obtain

		1.	2.	3.
		Constant.	Veering.	Backing.
January	1894-96 . . . . .	49 p.ct.	22 p.ct.	29 p.ct.
February	" " . . . . .	42 "	26 "	32 "
March	" " . . . . .	47 "	26 "	27 "
April	" " . . . . .	51 "	24 "	25 "
May	" " . . . . .	50 "	21 "	29 "
June	" " . . . . .	39 "	29 "	32 "
July	" " . . . . .	42 "	27 "	31 "
August	" 95 . . . . .	42 "	29 "	29 "
September	" " . . . . .	41 "	30 "	29 "
October	1893-95 . . . . .	46 "	25 "	29 "
November	" " . . . . .	45 "	26 "	29 "
December	" " . . . . .	56 "	21 "	23 "
Winter	. . . . .	49 "	23 "	28 "
Spring	. . . . .	49 "	24 "	27 "
Summer	. . . . .	40 "	28 "	32 "
Autumn	. . . . .	44 "	27 "	29 "
Year	. . . . .	46 "	25 "	29 "

The constancy or steadiness of the wind direction reaches almost 50 per cent. The veering with the sun is nearly as frequent as the backing against the sun.

The veering and the backing are fairly evenly distributed in all months over the whole wind-rose. I have not been able to find any preponderating tendency in the veering or backing to keep distinctly to certain rhumbs of the compass.

On the other hand the winds with the greatest steadiness show a remarkable correspondence with the prevailing winds. Taking out (1) the most frequent direction of the wind from the Table, pages 280 and 281, (2) the dominant wind-direction of the windward side of the wind-rose Table, pages 284 and 285, (3) the resultant wind from the Table given at the end of this chapter, and (4) the wind of the greatest (and sometimes next greatest) constancy, we obtain the following Table.

		1.	2.	3.	4.
October	1893 . . . . .	NW	NW	NW	NW
	94 . . . . .	ESE	ESE	ESE	ESE
	95 . . . . .	SE	SE	SE	S E
November	1893 . . . . .	SSE	SE	S	SE
	94 . . . . .	ESE	ESE	SE	ESE
	95 . . . . .	E	E	NE	N E
December	1893 . . . . .	SE	SE	SE	SE
	94 . . . . .	ESE	ESE	SE	ESE
	95 . . . . .	E	E	E	E
January	1894 . . . . .	S	S	SSE	S
	95 . . . . .	S	S	SSW	S
	96 . . . . .	NNW	E	NE	NNW
February	1894 . . . . .	SW	SW	SW	SW
	95 . . . . .	ESE	ESE	SSE	ESE
	96 . . . . .	NNW	NW	NNW	NNW
March	1894 . . . . .	SE	W	NW	W
	95 . . . . .	E	ESE	SE	ESE
	96 . . . . .	S	S	SSE	S
April	1894 . . . . .	S	S	SE	S
	95 . . . . .	NE	NE	ENE	NE
	96 . . . . .	ENE	ENE	E	ENE
May	1894 . . . . .	E	E	E	E
	95 . . . . .	E	E	ESE	E
	96 . . . . .	NW	NE	NW	NW
June	1894 . . . . .	W	WSW	W	NNW SW
	95 . . . . .	WNW	NNE	NE	SE NNE
	96 . . . . .	SSW	SSW	WSW	E SSW
July	1894 . . . . .	WNW	WNW	W	W
	95 . . . . .	SSW	W	SW	SW
	96 . . . . .	SSW	SW	SSW	SSW
August	1894 . . . . .	W	SSW	W	W
	95 . . . . .	NW	NW	SW	NW
	96 . . . . .	NW	NW	NNW	NW
September	1894 . . . . .	NW	NW	NNE	NE NW
	95 . . . . .	WSW	WSW	SW	WSW

The Table shows that it is the predominant winds which, in respect of time, are the most constant.



## WIND. VELOCITY.

The velocity of the wind, as given in the Tables, pp. 25—248, was tabulated for each hour of observation, each day, and for each month, and the monthly means taken for each hour of observation. These means and the general means for the whole months are given in the following Table.

		2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.	Mean
October	1893	-	4.40	-	4.99	-	5.18	-	5.07	-	4.63	-	4.48	4.78
	94	5.29	5.29	5.19	5.43	5.65	5.69	5.77	5.85	5.71	5.61	5.51	5.41	5.53
	95	4.34	4.26	4.36	4.62	4.55	4.58	4.54	4.49	4.60	4.68	4.67	4.52	4.52
November	1893	-	4.80	-	5.01	-	4.62	-	4.35	-	4.28	-	4.61	4.61
	94	3.58	3.67	3.77	4.14	4.02	4.05	4.06	4.29	4.19	4.07	3.87	3.89	3.97
	95	4.29	4.03	4.27	4.33	4.49	4.81	3.98	4.12	4.14	4.20	4.07	3.88	4.22
December	1893	-	3.26	-	3.31	-	3.29	-	3.15	-	3.40	-	3.09	3.25
	94	5.79	6.11	6.15	5.80	5.57	5.78	5.85	5.72	5.77	5.81	5.55	5.83	5.81
	95	3.76	3.63	3.59	3.62	4.01	4.03	3.74	3.88	3.83	3.75	3.96	3.61	3.78
January	1894	-	3.13	-	3.59	-	3.77	-	3.57	-	3.63	-	3.68	3.56
	95	4.41	4.39	4.41	4.46	4.49	4.46	4.53	4.74	4.41	4.32	4.50	4.54	4.47
	96	5.50	5.44	5.29	5.19	5.46	5.46	5.21	5.43	5.36	5.62	5.14	5.32	5.37
February	1894	-	3.67	-	3.58	-	3.61	-	3.82	-	3.49	-	3.50	3.61
	95	3.95	3.85	4.05	4.22	3.99	3.91	4.03	4.08	4.13	4.12	4.06	3.99	4.03
	96	5.42	5.42	5.63	5.78	6.24	6.16	5.90	6.34	6.13	6.02	6.13	6.10	5.93
March	1894	-	4.19	-	4.61	-	4.89	-	4.80	-	4.59	-	4.33	4.57
	95	3.27	3.09	3.19	3.46	3.31	3.67	3.73	3.67	3.70	3.56	3.61	3.55	3.48
	96	4.27	4.27	4.42	4.98	4.78	4.77	4.99	5.03	4.76	4.86	4.67	4.47	4.69
April	1894	3.59	3.70	3.95	4.22	4.31	4.52	4.56	4.87	4.51	4.05	3.77	3.64	4.14
	95	2.84	3.04	3.13	3.33	3.31	3.44	3.46	3.48	3.50	3.30	3.29	3.21	3.28
	96	4.54	4.55	4.77	4.65	4.74	4.90	4.63	4.87	5.00	4.86	4.62	4.54	4.72
May	1894	4.46	4.65	5.16	5.40	5.52	5.84	5.42	5.38	5.08	5.04	4.80	4.92	5.14
	95	4.26	4.49	4.76	5.06	5.31	5.26	5.06	5.42	4.97	4.71	4.73	4.42	4.87
	96	4.74	4.88	4.73	4.88	5.19	5.27	5.14	5.21	4.88	4.58	4.39	4.75	4.89
June	1894	3.62	4.02	3.73	3.92	3.79	3.88	4.08	3.84	3.97	3.90	3.56	3.76	3.84
	95	5.74	5.57	5.61	5.89	5.59	5.97	5.91	5.76	5.62	5.59	5.81	5.64	5.73
	96	4.01	4.26	4.05	4.02	4.14	4.14	4.36	4.34	4.14	4.15	4.01	3.79	4.12
July	1894	4.27	4.29	4.49	4.49	4.59	4.27	4.57	4.34	4.33	4.16	4.21	4.25	4.35
	95	4.75	4.84	4.75	5.13	5.26	5.10	5.09	5.06	4.94	5.21	5.04	5.18	5.03
	96	3.74	4.05	3.91	4.05	3.84	3.72	3.68	3.59	3.87	3.79	3.74	3.73	3.81
August (1.—19.)	1894	3.33	3.34	3.51	3.69	3.74	3.63	3.76	3.46	3.31	3.32	3.30	3.48	3.49
	95	4.73	4.68	5.69	5.17	5.33	5.05	5.16	5.43	5.21	5.25	4.95	4.51	5.01
	96	-	4.45	-	4.29	-	4.54	-	4.38	-	4.46	-	4.42	4.42
Septbr.	1894	4.21	4.33	4.46	5.08	5.81	5.15	4.99	4.87	5.23	4.84	5.02	4.60	4.80
	95	4.88	4.72	4.84	4.92	5.03	5.10	4.54	4.65	4.49	4.14	4.20	4.61	4.68

The differences between the means for the hours of observation and the means for the month, give a series of numbers for each hour of observation, expressing the diurnal period of the velocity of the wind for each month. These numbers are given in the following Table for each month of each year.

		2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.
October	1893		-.38		+.11		+.40		+.29		-.15		-.30
	94	-.24	-.24	-.34	-.10	+.12	+.16	+.24	+.32	+.18	+.08	-.02	-.12
	95	-.18	-.26	-.16	+.10	+.03	+.06	+.02	-.03	+.08	+.16	+.15	.00
	Mean	-.21	-.29	-.25	+.04	+.08	+.21	+.13	+.19	+.13	+.03	+.06	-.14
	Sm.	-.21	-.28	-.18	-.01	+.11	+.17	+.17	+.17	+.12	+.06	-.01	-.11
November	1893		+.19		+.40		+.01		-.26		-.33		.00
	94	-.39	-.30	-.20	+.17	+.05	+.08	+.09	+.32	+.22	+.10	-.10	-.08
	95	+.07	-.19	+.05	+.11	+.27	+.59	+.24	-.10	-.08	-.02	-.15	-.34
	Mean	-.16	-.10	-.08	+.23	+.16	+.23	+.16	-.01	-.15	-.08	-.12	-.14
	Sm.	-.14	-.11	+.01	+.15	+.20	+.20	+.13	-.00	-.09	-.10	-.11	-.14
December	1893		+.01		+.06		+.04		-.10		+.15		-.16
	94	-.02	+.30	+.34	-.01	-.24	-.03	+.04	-.09	-.04	.00	-.26	+.02
	95	-.02	-.15	-.19	-.16	+.23	+.25	-.04	+.10	+.05	-.03	+.18	-.17
	Mean	-.02	+.05	+.07	-.04	.00	+.09	.00	-.03	+.01	+.04	-.04	-.10
	Sm.	-.02	+.04	+.03	-.01	+.01	+.05	+.02	-.02	+.01	+.02	-.03	-.07
January	1894		-.43		+.03		+.21		+.01		+.07		+.12
	95	-.06	-.08	-.06	-.01	+.02	-.01	+.06	+.27	-.06	-.15	+.03	+.07
	96	+.13	+.07	-.08	-.18	+.09	+.09	-.16	+.06	-.01	+.25	-.23	-.05
	Mean	+.03	-.15	-.07	-.05	+.05	+.10	-.03	+.11	-.03	+.05	-.03	+.05
	Sm.	-.02	-.10	-.09	-.03	+.03	+.06	+.05	+.05	+.04	+.02	+.02	+.03
February	1894		+.06		-.03		.00		+.21		-.12		-.11
	95	-.08	-.18	+.02	+.19	-.04	-.12	.00	+.05	+.10	+.09	+.03	-.08
	96	-.51	-.51	-.30	-.15	+.31	+.23	-.03	+.41	+.20	+.09	+.20	+.17
	Mean	-.30	-.21	-.14	.00	+.13	+.04	-.01	+.22	+.15	+.02	+.11	-.01
	Sm.	-.19	-.21	-.12	.00	+.06	+.05	+.07	+.16	+.13	+.06	+.04	-.04
March	1894		-.38		+.04		+.32		+.23		+.02		-.24
	95	-.21	-.39	-.29	-.02	-.17	+.19	+.25	+.19	+.22	+.08	+.13	+.07
	96	-.42	-.42	-.27	+.29	+.09	+.08	+.30	+.34	+.07	+.17	-.02	-.22
	Mean	-.31	-.40	-.28	+.10	-.04	+.20	+.23	+.25	+.15	+.09	+.05	-.13
	Sm.	-.28	-.36	-.19	.00	+.07	+.17	+.25	+.24	+.16	+.09	+.01	-.13
April	1894	-.55	-.44	-.19	+.08	+.17	+.38	+.42	+.73	+.37	-.09	-.37	-.50
	95	-.44	-.24	-.15	+.05	+.03	+.16	+.18	+.20	+.22	+.02	+.01	-.03
	96	-.18	-.17	+.05	-.07	+.02	+.18	+.09	+.15	+.28	+.14	-.10	-.18
	Mean	-.39	-.28	-.10	+.02	+.07	+.24	+.17	+.36	+.29	+.02	-.15	-.24
	Sm.	-.33	-.26	-.12	.00	+.13	+.18	+.23	+.29	+.24	+.04	-.13	-.26

		2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.
May	1894	-.68	-.49	+.02	+.26	+.38	+.70	+.28	+.24	-.06	-.10	-.34	-.22
	95	-.61	-.38	-.11	+.19	+.44	+.39	+.19	+.55	+.10	-.14	-.14	-.45
	96	-.15	-.01	-.16	-.01	+.30	+.38	+.25	+.32	-.01	-.31	-.50	-.14
	Mean	-.48	-.29	-.08	+.15	+.37	+.49	+.24	+.37	+.01	-.19	-.33	-.27
	Sm.	-.38	-.29	-.08	+.15	+.34	+.40	+.33	+.25	+.05	-.15	-.28	-.34
June	1894	-.22	+.18	-.11	+.08	-.05	+.04	+.24	.00	+.13	+.06	-.28	-.08
	95	+.01	-.16	-.12	+.16	-.14	+.24	+.18	+.03	-.10	-.14	+.08	-.09
	96	-.11	+.14	-.07	-.10	+.02	+.02	+.24	+.22	+.02	+.03	-.11	-.33
	Mean	-.11	+.05	-.10	+.05	-.06	+.10	+.33	+.08	+.01	-.02	-.10	-.17
	Sm.	-.09	-.03	-.03	-.02	+.01	+.12	+.21	+.12	+.02	-.03	-.10	-.14
July	1894	-.08	-.06	+.14	+.14	+.24	-.08	+.22	-.01	-.02	-.19	-.14	-.10
	95	-.28	-.19	-.28	+.10	+.23	+.10	+.06	+.03	-.09	+.18	+.01	+.15
	96	-.07	+.24	+.10	+.24	+.03	-.09	-.13	-.22	+.06	-.02	-.07	-.08
	Mean	-.14	.00	-.01	+.16	+.17	-.02	+.05	-.07	-.02	-.01	-.07	-.01
	Sm.	-.04	-.04	+.03	+.09	+.12	+.04	.00	-.03	-.03	-.03	-.04	-.06
August (1.-19.)	1894	-.16	-.15	+.02	+.20	+.25	+.14	+.27	-.03	-.18	-.17	-.19	-.01
	95	-.28	-.33	-.32	+.16	+.32	+.04	+.15	+.42	+.20	+.24	-.06	-.50
	96		+.03		-.13		+.12		-.04		+.04		.00
	Mean	-.22	-.17	-.15	+.10	+.28	+.10	+.21	+.14	+.01	+.03	-.12	-.19
	Sm.	-.20	-.15	-.08	+.03	+.18	+.16	+.16	+.13	+.05	-.01	-.10	-.18
September	1894	-.59	-.47	-.34	+.28	+.01	+.35	+.19	+.07	+.43	+.04	+.22	-.20
	95	+.20	+.04	+.16	+.24	+.35	+.42	-.14	-.03	-.19	-.54	-.48	-.07
	Mean	-.20	-.21	-.09	+.26	+.18	+.38	+.02	+.02	+.12	-.25	-.13	-.13
	Sm.	-.18	-.18	-.02	+.16	+.25	+.24	+.11	+.05	.00	-.13	-.16	-.15

The horizontal row "Mean" in the Table contains the direct means for the three or two years of observation. The horizontal row "Sm." gives a smoothed series of numbers, computed from the formula

$$b_h = \frac{ap_a + 2bp_b + cp_c}{p_a + 2p_b + p_c}$$

$b_h$  being the smoothed value for the respective hour,  $b$  the value in the column "Mean",  $a$  and  $c$  the values for the adjacent hours of observation,  $p_a$ ,  $p_b$  and  $p_c$  the respective weights, taken proportional to the numbers of observations.

The Table shows that there is in each month a remarkably well-defined diurnal period in the velocity of the wind. From the table and diagrams, I

have deduced the numbers contained in the following Table, viz. for each month the hours (h), and values (D) of the daily minimum and maximum, the diurnal range or amplitude, and the mean of the hourly values without respect to the sign, or what we call the mean ordinate (M. Or.). The hours, or epochs, are given to the nearest tenth of an hour.

Month.	Minimum.		Maximum.		Range.	M. Or.
	h.	D m. p. s.	h.	D m. p. s.	m. p. s.	m. p. s.
October . . . . .	3·7 a. m.	— 0·28	2·0 p. m.	+ 0·17	0·45	0·13
November . . . . .	1·0 a. m.	— 0·15	11·1 a. m.	0·21	0·36	0·12
December . . . . .	11·8 p. m.	— 0·07	12·2 p. m.	0·05	0·12	0·03
January . . . . .	4·8 a. m.	— 0·11	12·7 p. m.	0·06	0·16	0·05
February . . . . .	3·4 a. m.	— 0·22	4·4 p. m.	0·17	0·39	0·09
March . . . . .	3·7 a. m.	— 0·37	2·7 p. m.	0·26	0·63	0·16
April . . . . .	2·0 a. m.	— 0·33	4·5 p. m.	0·29	0·62	0·18
May . . . . .	1·6 a. m.	— 0·38	11·7 a. m.	0·40	0·78	0·25
June . . . . .	11·3 p. m.	— 0·14	2·0 p. m.	0·21	0·35	0·08
July . . . . .	M.night	— 0·06	9·5 a. m.	0·12	0·18	0·05
August . . . . .	1·3 a. m.	— 0·21	10·7 a. m.	0·19	0·40	0·12
September . . . . .	3·5 a. m.	— 0·19	10·8 a. m.	+ 0·26	0·45	0·14

The velocity of the wind is lowest in the morning hours, and strongest in the hours about and after noon: this is the usual rule. The range has an annual period; it has its highest maximum in May, and a second maximum in September and October, and minima in December and July. The mean ordinate has an annual period of exactly the same character.

Taking the means for the meteorological seasons, and for the dark season, the sunny season, the equinoctial months, and the year, we get

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.
Winter . . . . .	- 0·08	- 0·09	- 0·06	- 0·01	+ 0·03	+ 0·05	+ 0·05	+ 0·06	+ 0·06	+ 0·03	+ 0·01	- 0·03
Spring . . . . .	- 0·33	- 0·30	- 0·13	+ 0·05	+ 0·18	+ 0·25	+ 0·27	+ 0·26	+ 0·15	- 0·01	- 0·10	- 0·24
Summer . . . . .	- 0·11	- 0·07	- 0·05	+ 0·03	+ 0·10	+ 0·10	+ 0·12	+ 0·07	+ 0·01	- 0·02	- 0·08	- 0·13
Autumn . . . . .	- 0·18	- 0·20	- 0·06	+ 0·10	+ 0·19	+ 0·20	+ 0·14	+ 0·07	+ 0·01	- 0·07	- 0·09	- 0·13
Dark Season . . . .	- 0·12	- 0·13	- 0·07	+ 0·02	+ 0·08	+ 0·10	+ 0·09	+ 0·07	+ 0·04	+ 0·01	- 0·02	- 0·07
Sunny Season . . . .	- 0·21	- 0·15	- 0·07	+ 0·05	+ 0·16	+ 0·18	+ 0·19	+ 0·15	+ 0·07	- 0·04	- 0·13	- 0·20
Equinoct. Months . .	- 0·23	- 0·27	- 0·11	+ 0·08	+ 0·16	+ 0·21	+ 0·18	+ 0·14	+ 0·08	- 0·02	- 0·08	- 0·14
Year . . . . .	- 0·18	- 0·16	- 0·08	+ 0·04	+ 0·13	+ 0·15	+ 0·15	+ 0·11	+ 0·06	- 0·02	- 0·06	- 0·18

The Table and the Diagrams on Pl. I (1 cm. = 1 m. p. s.) give

	Minimum.		Maximum.		Range.	M. Or.
	h.	D m. p. s.	h.	D m. p. s.	m. p. s.	m. p. s.
Winter . . . . .	3·1 a. m.	- 0·09	4·6 p. m.	+ 0·06	0·15	0·05
Spring . . . . .	2·6 a. m.	- 0·34	2·5 p. m.	+ 0·27	0·61	0·19
Summer . . . . .	0·6 a. m.	- 0·14	1·7 p. m.	+ 0·12	0·36	0·08
Autumn . . . . .	3·2 a. m.	- 0·21	11·2 a. m.	+ 0·21	0·42	0·12
Dark Season . . . . .	3·3 a. m.	- 0·14	12·4 p. m.	+ 0·10	0·24	0·07
Sunny Season . . . . .	1·1 a. m.	- 0·21	1·2 p. m.	+ 0·20	0·41	0·13
Equinoct. Months . . . . .	3·6 a. m.	- 0·27	12·6 p. m.	+ 0·21	0·48	0·14
Year . . . . .	1·0 a. m.	- 0·18	1·0 p. m.	+ 0·15	0·33	0·11

Considering the possibility that the diurnal period of the velocity of the wind might be different with different states of the sky, I have computed the mean values of the velocity for the different hours in each month separately for the days with clear sky (amount of cloud 0) and for the days with the sky overcast (amount of cloud 10). The computation was made for the 3 years of the drift of the Fram, taking the average for each month, e. g. October mean for 1893, —94 and —95. As September presented no clear days, July only 4, and June and August only one, I have taken for these months the days which give a mean amount of cloud of about 5.

The following Table shows for each month the sum of the clear and of the overcast days, and the respective means of the diurnal velocity of the wind.

	Clear			Overcast	
	Days.	Cloud.	Velocity.	Days.	Velocity.
October . . . . .	12	0	4.06 m. p. s.	36	5.98 m. p. s.
November : . . . .	33	0	3.68 "	19	6.52 "
December . . . . .	44	0	3.57 "	17	5.33 "
January . . . . .	44	0	3.57 "	23	5.95 "
February . . . . .	36	0	3.09 "	19	6.48 "
March . . . . .	27	0	3.43 "	43	4.83 "
April . . . . .	25	0	3.08 "	34	4.72 "
May . . . . .	20	0	4.28 "	52	5.47 "
June . . . . .	13	4.5	3.27 "	77	4.78 "
July . . . . .	13	4.4	3.36 "	80	4.73 "
August . . . . .	12	4.7	3.64 "	49	4.41 "
September . . . . .	6	5.5	4.63 "	54	4.77 "
Mean (weighted) .	24		3.54 m. p. s.	42	5.09 m. p. s.

We see from the Table, that the velocity of the wind is on the whole obviously greater with cloudy weather than with a clear sky. The greater velocity of the wind accompanies stronger ascending currents of air, causing the formation of clouds. A clear sky with a lower velocity of the wind belongs to an anticyclonic, a clouded sky with a higher velocity of the wind to a cyclonic condition of the atmosphere.

The following Tables show the diurnal period of the velocity in the form of differences (smoothed) from the diurnal mean.

Hour.	October 1893, 94, 95.		November 1893, 94, 95.		December 1893, 94, 95.		January 1894, 95, 96.	
	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.
	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.
2 a.m.	+ 0·32	— 0·48	+ 0·03	— 0·46	— 0·02	+ 0·13	— 0·16	— 0·15
4 "	+ 0·29	— 0·65	— 0·03	— 0·07	+ 0·02	+ 0·20	— 0·12	— 0·41
6 "	— 0·01	— 0·30	+ 0·03	+ 0·09	— 0·01	+ 0·14	— 0·01	— 0·33
8 "	— 0·16	+ 0·09	+ 0·11	+ 0·34	— 0·04	+ 0·09	+ 0·12	— 0·23
10 "	— 0·08	+ 0·22	+ 0·04	+ 0·60	0·00	+ 0·05	+ 0·24	— 0·23
Noon	— 0·07	+ 0·30	— 0·03	+ 0·57	+ 0·08	+ 0·02	+ 0·21	+ 0·17
2 p.m.	— 0·11	+ 0·30	— 0·03	+ 0·30	+ 0·10	— 0·07	+ 0·04	+ 0·14
4 "	— 0·15	+ 0·29	— 0·03	+ 0·21	+ 0·05	— 0·16	— 0·13	+ 0·29
6 "	— 0·13	+ 0·21	— 0·07	+ 0·15	+ 0·03	— 0·10	— 0·14	+ 0·36
8 "	— 0·06	+ 0·08	— 0·07	— 0·14	0·00	— 0·07	— 0·03	+ 0·20
10 "	+ 0·03	+ 0·04	0·00	— 0·66	— 0·07	— 0·16	+ 0·01	+ 0·03
Midnight	+ 0·16	— 0·06	+ 0·07	— 0·88	— 0·09	— 0·10	— 0·08	— 0·03
Mean	4·06	5·98	3·68	6·52	3·57	5·33	3·57	5·95

Hour.	February 1894, 95, 96.		March 1894, 95, 96.		April 1894, 95, 96.		May 1894, 95, 96.	
	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.
	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.
2 a.m.	+ 0·18	— 0·04	— 0·14	— 0·52	— 0·12	— 0·45	— 0·33	— 0·29
4 "	+ 0·06	+ 0·07	— 0·14	— 0·65	— 0·14	— 0·38	— 0·40	— 0·24
6 "	— 0·04	+ 0·14	— 0·08	— 0·34	— 0·06	— 0·26	— 0·28	— 0·06
8 "	— 0·03	+ 0·04	— 0·05	+ 0·08	+ 0·03	— 0·13	— 0·06	+ 0·17
10 "	— 0·01	— 0·09	— 0·02	+ 0·25	+ 0·11	+ 0·03	+ 0·26	+ 0·37
Noon	— 0·02	— 0·24	— 0·01	+ 0·35	+ 0·13	+ 0·14	+ 0·30	+ 0·43
2 p.m.	0·00	— 0·23	— 0·05	+ 0·46	+ 0·08	+ 0·27	+ 0·18	+ 0·41
4 "	+ 0·02	— 0·06	+ 0·09	+ 0·41	+ 0·08	+ 0·45	+ 0·20	+ 0·24
6 "	— 0·05	+ 0·07	+ 0·22	+ 0·25	+ 0·09	+ 0·46	+ 0·17	— 0·02
8 "	— 0·12	+ 0·12	+ 0·18	+ 0·09	— 0·01	+ 0·22	+ 0·05	— 0·28
10 "	— 0·06	+ 0·13	+ 0·10	— 0·07	— 0·07	— 0·08	+ 0·01	— 0·36
Midnight	+ 0·09	+ 0·05	— 0·04	— 0·26	— 0·06	— 0·33	— 0·07	— 0·32
Mean	3·09	6·48	3·43	4·83	3·08	4·72	4·23	5·47

Hour.	June 1894, 95, 96.		July 1894, 95, 96.		August 1894, 95.		September 1894, 95.	
	Clear (4·5)	Overcast.	Clear (4·4)	Overcast.	Clear (4·7)	Overcast.	Clear (5·5)	Overcast.
	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.
2 a. m.	— 0·43	— 0·05	+ 0·03	— 0·05	— 0·25	— 0·16	+ 1·08	— 0·21
4 "	— 0·35	— 0·03	+ 0·12	— 0·07	— 0·15	— 0·15	+ 1·85	— 0·31
6 "	— 0·16	— 0·04	+ 0·09	+ 0·04	+ 0·05	— 0·10	+ 1·38	— 0·17
8 "	+ 0·12	— 0·04	— 0·05	+ 0·19	+ 0·30	+ 0·03	+ 0·87	+ 0·07
10 "	+ 0·27	— 0·04	— 0·18	+ 0·20	+ 0·33	+ 0·13	+ 0·40	+ 0·23
Noon	+ 0·36	+ 0·05	— 0·25	+ 0·08	+ 0·20	+ 0·13	— 0·20	+ 0·28
2 p. m.	+ 0·36	+ 0·12	— 0·17	— 0·02	+ 0·13	+ 0·14	— 0·79	+ 0·18
4 "	+ 0·22	+ 0·08	— 0·05	— 0·08	+ 0·02	+ 0·14	— 1·00	+ 0·13
6 "	+ 0·02	+ 0·04	+ 0·02	— 0·10	— 0·09	+ 0·08	— 0·78	+ 0·05
8 "	— 0·07	0·00	+ 0·13	— 0·09	— 0·10	+ 0·03	— 0·81	— 0·10
10 "	— 0·09	— 0·06	+ 0·18	— 0·07	— 0·17	— 0·09	— 1·28	— 0·10
Midnight	— 0·30	— 0·09	+ 0·09	— 0·03	— 0·28	— 0·16	— 0·72	— 0·07
Mean	3·27	4·78	3·36	4·78	3·64	4·41	4·63	4·77

Hour.	Winter. Dec., Jan., Febr.		Spring. Mar., Apr., May.		Summer. June, July, Aug.		Autumn. Sept., Oct., Nov.	
	Clear.	Overcast.	Clear.	Overcast.	Clear (4·5)	Overcast.	Clear (1·7)	Overcast.
	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.	m. p. s.
2 a. m.	0·00	— 0·03	— 0·20	— 0·42	— 0·22	— 0·09	+ 0·48	— 0·38
4 "	— 0·01	— 0·05	— 0·23	— 0·42	— 0·12	— 0·08	+ 0·70	— 0·34
6 "	— 0·02	— 0·02	— 0·14	— 0·22	— 0·01	— 0·03	+ 0·47	— 0·13
8 "	+ 0·02	— 0·03	— 0·03	+ 0·04	+ 0·12	+ 0·06	+ 0·27	+ 0·17
10 "	+ 0·08	— 0·02	+ 0·12	+ 0·22	+ 0·14	+ 0·10	+ 0·12	+ 0·35
Noon	+ 0·09	— 0·02	+ 0·14	+ 0·31	+ 0·10	+ 0·09	— 0·10	+ 0·38
2 p. m.	+ 0·05	— 0·05	+ 0·07	+ 0·38	+ 0·11	+ 0·08	— 0·31	+ 0·26
4 "	— 0·02	+ 0·02	+ 0·12	+ 0·37	+ 0·06	+ 0·05	— 0·39	+ 0·21
6 "	— 0·02	+ 0·12	+ 0·16	+ 0·23	— 0·02	+ 0·01	— 0·33	+ 0·14
8 "	— 0·05	+ 0·08	+ 0·07	+ 0·01	— 0·01	— 0·02	— 0·31	— 0·05
10 "	— 0·04	0·00	+ 0·01	— 0·17	— 0·03	— 0·07	— 0·42	— 0·24
Midnight	— 0·03	— 0·03	— 0·06	— 0·30	— 0·16	— 0·09	— 0·16	— 0·34
Mean	3·42	5·92	3·53	5·00	3·42	4·64	4·12	5·76



Hour.	Dark Season. Oct.—Febr.		Sunny Season. Apr.—Aug.		Equinoct. Months. March, Sept.		Year.	
	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.
2 a.m.	+ 0·07	— 0·20	— 0·22	— 0·20	+ 0·47	— 0·36	+ 0·01	— 0·23
4 -	+ 0·04	— 0·17	— 0·18	— 0·17	+ 0·85	— 0·48	+ 0·10	— 0·22
6 -	— 0·01	— 0·05	— 0·03	— 0·08	+ 0·65	— 0·26	+ 0·07	— 0·10
8 -	0·00	+ 0·06	+ 0·07	+ 0·04	+ 0·41	+ 0·08	+ 0·09	+ 0·06
10 -	+ 0·04	+ 0·15	+ 0·16	+ 0·14	+ 0·19	+ 0·24	+ 0·11	+ 0·16
Noon	+ 0·03	+ 0·16	+ 0·15	+ 0·16	— 0·10	+ 0·32	+ 0·08	+ 0·19
2 p.m.	0·00	+ 0·09	+ 0·12	+ 0·18	— 0·42	+ 0·32	— 0·02	+ 0·17
4 -	— 0·05	+ 0·11	+ 0·09	+ 0·17	— 0·46	+ 0·27	— 0·06	+ 0·16
6 -	— 0·07	+ 0·14	+ 0·04	+ 0·09	— 0·28	+ 0·15	— 0·05	+ 0·12
8 -	— 0·06	+ 0·04	0·00	— 0·02	— 0·31	— 0·01	— 0·08	+ 0·01
10 -	— 0·02	— 0·12	— 0·05	— 0·13	— 0·59	— 0·09	— 0·12	— 0·13
Midnight	+ 0·03	— 0·20	— 0·12	— 0·18	— 0·38	— 0·17	— 0·20	— 0·19
Mean	3·6	6·1	3·5	4·8	4·0	4·8	3·62	5·33

	Amount of Cloud.	Minimum		Maximum		Range m. p. s.	Mean ord. m. p. s.	Mean velo- city m. p. s.
		Hour.	Dev.	Hour.	Dev.			
January . . . .	0	2 a. m.	— 0·16	11 a. m.	+ 0·24	0·40	0·11	3·57
— . . . .	10	5 a. m.	— 0·41	6 p. m.	+ 0·36	0·77	0·20	5·95
February . . . .	0	8 p. m.	— 0·12	2 a. m.	+ 0·18	0·30	0·06	3·09
— . . . .	10	1 p. m.	— 0·24	6 a. m.	+ 0·14	0·38	0·11	6·48
March . . . . .	0	3 a. m.	— 0·14	6 p. m.	+ 0·22	0·36	0·09	3·43
— . . . . .	10	4 a. m.	— 0·65	3 p. m.	+ 0·46	1·11	0·32	4·83
April . . . . .	0	3 a. m.	— 0·14	Noon	+ 0·13	0·27	0·08	3·08
— . . . . .	10	2 a. m.	— 0·45	5 p. m.	+ 0·46	0·91	0·26	4·72
May . . . . .	0	4 a. m.	— 0·40	11 a. m.	+ 0·30	0·70	0·19	4·28
— . . . . .	10	10 p. m.	— 0·36	1 p. m.	+ 0·43	0·79	0·27	5·47
June . . . . .	4·5	2 a. m.	— 0·43	1 p. m.	+ 0·36	0·79	0·23	3·27
— . . . . .	10	Midnight	— 0·09	2 p. m.	+ 0·12	0·21	0·05	4·78

	Amount of Cloud.	Minimum		Maximum		Range m. p. s.	Mean ord. m. p. s.	Mean velo- city m. p. s.
		Hour.	Dev.	Hour.	Dev.			
July . . . . .	4.4	Noon	- 0.25	10 p. m.	+ 0.18	0.43	0.11	3.36
— . . . . .	10	6 p. m.	- 0.10	9 a. m.	+ 0.20	0.30	0.08	4.78
August . . . . .	4.7	Midnight	- 0.28	9 a. m.	+ 0.33	0.61	0.17	3.64
— . . . . .	10	1 a. m.	- 0.16	3 p. m.	+ 0.14	0.30	0.11	4.41
September . . . . .	5.5	10 p. m.	- 1.28	4 a. m.	+ 1.85	3.13	0.93	4.63
— . . . . .	10	4 a. m.	- 0.31	Noon	+ 0.28	0.59	0.16	4.77
October . . . . .	0	8 a. m.	- 0.16	2 a. m.	+ 0.32	0.48	0.13	4.06
— . . . . .	10	4 a. m.	- 0.65	1 p. m.	+ 0.30	0.95	0.25	5.98
November . . . . .	0	7 p. m.	- 0.07	8 a. m.	+ 0.11	0.18	0.04	3.68
— . . . . .	10	Midnight	- 0.88	11 a. m.	+ 0.60	1.48	0.37	6.52
December . . . . .	0	Midnight	- 0.09	2 p. m.	+ 0.10	0.19	0.04	3.57
— . . . . .	10	4 p. m.	- 0.16	4 a. m.	+ 0.20	0.36	0.11	5.33
Winter . . . . .	0	8 p. m.	- 0.05	Noon	+ 0.09	0.14	0.03	3.42
— . . . . .	10	4 a. m.	- 0.05	6 p. m.	+ 0.12	0.17	0.02	5.92
Spring . . . . .	0	3 a. m.	- 0.23	6 p. m.	+ 0.16	0.39	0.11	3.53
— . . . . .	10	3 a. m.	- 0.42	3 p. m.	+ 0.38	0.80	0.25	5.00
Summer . . . . .	4.5	2 a. m.	- 0.22	10 a. m.	+ 0.14	0.36	0.09	3.42
— . . . . .	10	1 a. m.	- 0.09	11 a. m.	+ 0.10	0.19	0.06	4.64
Autumn . . . . .	1.8	10 p. m.	- 0.41	4 a. m.	+ 0.70	1.01	0.34	4.12
— . . . . .	10	2 a. m.	- 0.38	Noon	+ 0.38	0.76	0.25	5.76
Dark Season . . . . .	0	6 a. m.	- 0.07	2 a. m.	+ 0.07	0.14	0.04	3.6
— » — . . . . .	10	1 a. m.	- 0.20	Noon	+ 0.16	0.48	0.12	6.1
Sunny Season . . . . .	2.7	2 a. m.	- 0.22	11 a. m.	+ 0.16	0.38	0.10	3.5
— » — . . . . .	10	2 a. m.	- 0.20	2 p. m.	+ 0.18	0.38	0.13	4.8
Equin. Months . . . . .	2.7	10 p. m.	- 0.59	4 a. m.	+ 0.85	1.44	0.42	4.0
— » — . . . . .	10	4 a. m.	- 0.48	1 p. m.	+ 0.32	0.80	0.23	4.8
Year . . . . .	1.6	Midnight	- 0.20	10 a. m.	+ 0.11	0.31	0.08	3.5
— . . . . .	10	3 a. m.	- 0.23	Noon	+ 0.19	0.42	0.15	5.3

As a rule the diurnal period of the velocity of the wind is feebly developed with a clear sky. September forms an exception, but this month presents no clear days, and only a few days with a small amount of cloud.

The days with sky overcast show the ordinary period very well, particularly November and March with ranges above one metre per second.

The periods for the seasons give a better oversight. Plate II. (1 cm. = 1 m. p. s.). In winter there is almost no period; in spring the range with sky clear is only one half of the range with sky overcast; in summer the range with sky clear is twice as great as with sky overcast; in autumn, September excluded, the range is much greater with sky overcast than with sky clear. In the dark season there is no distinct period with sky clear. The relatively considerable amount of range with sky overcast — as great as the range with sky overcast in the sunny season — is due to the ranges of October and November. Of the equinoctial months, March has a much greater range with sky overcast than with sky clear. September is not suited for a comparison in this respect.

The above tables indicate that the range of the diurnal period of the velocity of the wind is greater with a greater velocity, and vice versa. A further study of this relation seemed to me desirable, and the results of such study are set forth in the following tables. From the tables giving the velocity of the wind for each hour of observation, the days on which the mean daily velocity ( $v$ ) was less than 4.5 metres per second, and the days when it was above 4.5 m. p. s., were taken out. For the months of the drift of the Fram, the mean velocity for each of these two groups and for each alternate hour, the corresponding diurnal mean, and the difference between this mean and the bi-hourly means ( $d$ ), were taken.

Hour.	October 1893, 94, 95.		November 1893, 94, 95.		December 1893, 94, 95.		January 1894, 95, 96.	
	$v < 4.5$	$v > 4.5$	$v < 4.5$	$v > 4.5$	$v < 4.5$	$v > 4.5$	$v < 4.5$	$v > 4.5$
	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.
2 a. m.	— 0.08	— 0.38	— 0.02	— 0.19	— 0.05	— 0.12	+ 0.08	— 0.28
4 -	— 0.19	— 0.32	— 0.02	— 0.07	+ 0.02	— 0.10	+ 0.10	— 0.38
6 -	— 0.22	— 0.12	+ 0.05	+ 0.12	+ 0.03	— 0.08	+ 0.09	— 0.34
8 -	— 0.11	+ 0.10	+ 0.11	+ 0.33	+ 0.04	— 0.04	+ 0.07	— 0.15
10 -	+ 0.01	+ 0.24	+ 0.04	+ 0.45	+ 0.03	+ 0.08	+ 0.02	+ 0.13
Noon	+ 0.04	+ 0.32	— 0.04	+ 0.32	+ 0.03	+ 0.15	— 0.03	+ 0.23
2 p. m.	+ 0.07	+ 0.33	+ 0.03	+ 0.07	+ 0.01	+ 0.10	— 0.07	+ 0.25
4 -	+ 0.09	+ 0.26	— 0.01	— 0.08	— 0.03	+ 0.09	— 0.11	+ 0.31
6 -	+ 0.11	+ 0.12	— 0.06	— 0.05	0.00	+ 0.10	— 0.10	+ 0.25
8 -	+ 0.13	— 0.04	— 0.09	— 0.13	+ 0.03	+ 0.04	— 0.06	+ 0.12
10 -	+ 0.09	— 0.18	— 0.01	— 0.34	— 0.02	— 0.10	— 0.05	0.00
Midnight	+ 0.02	— 0.28	+ 0.03	— 0.35	— 0.09	— 0.15	0.00	— 0.12
Mean	2.93	6.75	2.85	6.56	2.79	6.27	3.06	6.30

Hour.	February 1894, 95, 96.		March 1894, 95, 96.		April 1894, 95, 96.		May 1894, 95, 96.	
	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5
	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.
2 a. m.	+ 0.08	- 0.59	- 0.14	- 0.52	- 0.18	- 0.55	- 0.03	- 0.53
4 -	- 0.12	- 0.33	- 0.29	- 0.43	- 0.15	- 0.50	- 0.03	- 0.42
6 -	- 0.11	- 0.04	- 0.21	- 0.18	- 0.09	- 0.27	+ 0.01	- 0.18
8 -	- 0.09	+ 0.25	- 0.07	+ 0.10	- 0.03	- 0.10	+ 0.05	+ 0.13
10 -	- 0.15	+ 0.44	- 0.03	+ 0.28	+ 0.15	+ 0.20	+ 0.14	+ 0.45
Noon	- 0.23	+ 0.43	+ 0.06	+ 0.36	+ 0.11	+ 0.36	+ 0.16	+ 0.54
2 p. m.	- 0.17	+ 0.36	+ 0.17	+ 0.36	+ 0.16	+ 0.37	+ 0.12	+ 0.46
4 -	- 0.03	+ 0.34	+ 0.17	+ 0.31	+ 0.21	+ 0.46	+ 0.13	+ 0.34
6 -	+ 0.06	+ 0.20	+ 0.09	+ 0.25	+ 0.13	+ 0.42	- 0.02	+ 0.10
8 -	+ 0.12	- 0.05	+ 0.07	+ 0.08	- 0.02	+ 0.17	- 0.14	- 0.13
10 -	+ 0.29	- 0.39	+ 0.12	- 0.21	- 0.10	- 0.17	- 0.24	- 0.30
Midnight	+ 0.32	- 0.66	+ 0.06	- 0.45	- 0.15	- 0.43	- 0.10	- 0.45
Mean	3.03	6.90	3.13	6.03	2.98	5.95	3.03	6.30

Hour.	June 1894, 95, 96.		July 1894, 95, 96.		August 1894, 95.		September 1894, 95.	
	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5
	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.
2 a. m.	- 0.08	- 0.15	0.00	- 0.19	- 0.13	- 0.46	0.00	- 0.33
4 -	- 0.06	- 0.10	- 0.05	- 0.12	- 0.15	- 0.36	- 0.08	- 0.33
6 -	- 0.07	- 0.02	+ 0.01	- 0.01	- 0.10	- 0.08	- 0.07	0.00
8 -	0.00	- 0.02	+ 0.13	+ 0.13	+ 0.08	+ 0.25	+ 0.07	+ 0.22
10 -	+ 0.04	- 0.01	+ 0.09	+ 0.22	+ 0.13	+ 0.35	+ 0.15	+ 0.34
Noon	+ 0.07	+ 0.10	- 0.04	+ 0.23	+ 0.12	+ 0.25	+ 0.14	+ 0.34
2 p. m.	+ 0.14	+ 0.20	- 0.07	+ 0.18	+ 0.13	+ 0.25	+ 0.06	+ 0.16
4 -	+ 0.09	+ 0.15	- 0.04	+ 0.05	+ 0.12	+ 0.32	+ 0.03	+ 0.07
6 -	+ 0.01	+ 0.09	- 0.12	- 0.04	+ 0.01	+ 0.15	- 0.03	+ 0.04
8 -	- 0.01	- 0.01	- 0.09	- 0.11	- 0.02	- 0.02	- 0.14	- 0.11
10 -	- 1.04	- 0.10	+ 0.06	- 0.18	- 0.08	- 0.21	- 0.14	- 0.21
Midnight	- 0.10	- 0.14	+ 0.07	- 0.20	- 0.11	- 0.43	- 0.04	- 0.25
Mean	3.15	6.49	3.64	5.87	3.02	6.67	3.24	5.96

Hour.	Winter Dec., Jan., Febr.		Spring Mar., Apr., May.		Summer June, July, Aug.		Autumn Sept., Oct., Nov.	
	v < 4·5	v > 4·5	v < 4·5	v > 4·5	v < 4·5	v > 4·5	v < 4·5	v > 4·5
	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.
2 a. m.	+ 0·04	— 0·33	— 0·12	— 0·53	— 0·07	— 0·26	— 0·03	— 0·30
4 -	0·00	— 0·27	— 0·16	— 0·45	— 0·09	— 0·19	— 0·09	— 0·24
6 -	0·00	— 0·15	— 0·10	— 0·21	— 0·05	— 0·03	— 0·07	0·00
8 -	+ 0·07	+ 0·02	— 0·02	+ 0·08	+ 0·07	+ 0·12	+ 0·03	+ 0·22
10 -	— 0·03	+ 0·22	+ 0·05	+ 0·31	+ 0·09	+ 0·19	+ 0·07	+ 0·35
Noon	— 0·08	+ 0·27	+ 0·11	+ 0·42	+ 0·05	+ 0·20	+ 0·05	+ 0·33
2 p. m.	— 0·08	+ 0·24	+ 0·15	+ 0·40	+ 0·07	+ 0·21	+ 0·04	+ 0·18
4 -	— 0·06	+ 0·25	+ 0·17	+ 0·37	+ 0·06	+ 0·18	+ 0·04	+ 0·09
6 -	— 0·02	+ 0·19	+ 0·06	+ 0·26	— 0·03	+ 0·06	+ 0·01	+ 0·04
8 -	+ 0·03	+ 0·04	— 0·03	+ 0·04	— 0·04	— 0·04	— 0·03	— 0·09
10 -	+ 0·07	— 0·16	— 0·08	— 0·22	— 0·02	— 0·16	— 0·01	— 0·24
Midnight	+ 0·08	— 0·31	— 0·07	— 0·44	— 0·05	— 0·25	+ 0·01	— 0·29
Mean	2·96	6·49	3·05	6·09	3·27	6·34	3·00	6·42

Hour.	Dark Season Oct.—Febr.		Sunny Season Apr.—Aug.		Equinoct. Months March, Sept.		Year.	
	v < 4·5	v > 4·5	v < 4·5	v > 4·5	v < 4·5	v > 4·5	v < 4·5	v > 4·5
	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.	d. m. p. s.
2 a. m.	0·00	— 0·32	— 0·08	— 0·38	— 0·07	— 0·41	— 0·06	— 0·37
4 -	— 0·04	— 0·24	— 0·08	— 0·30	— 0·19	— 0·36	— 0·11	— 0·30
6 -	— 0·03	— 0·10	— 0·04	— 0·09	— 0·09	— 0·21	— 0·06	— 0·14
8 -	— 0·01	+ 0·09	+ 0·05	+ 0·09	0·00	+ 0·18	+ 0·01	+ 0·12
10 -	— 0·01	+ 0·26	+ 0·09	+ 0·24	+ 0·06	+ 0·33	+ 0·06	+ 0·27
Noon	— 0·04	+ 0·29	+ 0·09	+ 0·29	+ 0·10	+ 0·37	+ 0·04	+ 0·31
2 p. m.	— 0·04	+ 0·21	+ 0·10	+ 0·29	+ 0·11	+ 0·28	+ 0·05	+ 0·26
4 -	— 0·02	+ 0·18	+ 0·11	+ 0·26	+ 0·10	+ 0·21	+ 0·06	+ 0·21
6 -	0·00	+ 0·12	+ 0·01	+ 0·14	+ 0·03	+ 0·16	+ 0·01	+ 0·14
8 -	+ 0·03	— 0·02	— 0·05	— 0·02	— 0·04	0·00	— 0·03	+ 0·02
10 -	+ 0·06	— 0·20	— 0·08	— 0·20	— 0·01	— 0·19	— 0·02	— 0·20
Midnight	+ 0·06	— 0·28	— 0·07	— 0·33	+ 0·01	— 0·33	— 0·01	— 0·32
Mean	2·93	6·56	3·16	6·26	3·19	5·98	3·10	6·27

	Mean	Minimum		Maximum		Range	Mean ord.
	m. p. s.	Hour.	Dev.	Hour.	Dev.	m. p. s.	m. p. s.
January . . . . .	3·06	5 p. m.	— 0·11	4 a. m.	+ 0·10	0·21	0·07
— . . . . .	6·30	3 a. m.	— 0·38	4 p. m.	+ 0·31	0·69	0·21
February . . . . .	3·03	Noon	— 0·33	11 p. m.	+ 0·32	0·55	0·15
— . . . . .	6·90	Midnight	— 0·66	11 a. m.	+ 0·44	1·10	0·34
March . . . . .	3·13	4 a. m.	— 0·29	3 p. m.	+ 0·17	0·46	0·13
— . . . . .	6·03	2 a. m.	— 0·52	1 p. m.	+ 0·36	0·88	0·29
April . . . . .	2·98	2 a. m.	— 0·18	4 p. m.	+ 0·21	0·39	0·12
— . . . . .	5·95	2 a. m.	— 0·55	4 p. m.	+ 0·46	1·01	0·33
May . . . . .	3·03	10 p. m.	— 0·24	Noon	+ 0·16	0·40	0·09
— . . . . .	6·30	2 a. m.	— 5·53	Noon	+ 0·54	1·07	0·33
June . . . . .	3·15	Midnight	— 0·10	2 p. m.	+ 0·14	0·24	0·06
— . . . . .	6·49	1 a. m.	— 0·15	2 p. m.	+ 0·20	0·35	0·09
July . . . . .	3·64	2 p. m.	— 0·07	8 a. m.	+ 0·13	0·20	0·06
— . . . . .	5·87	1 a. m.	— 0·20	11 a. m.	+ 0·23	0·43	0·14
August . . . . .	3·02	4 a. m.	— 0·15	2 p. m.	+ 0·13	0·28	0·10
— . . . . .	6·67	1 a. m.	— 0·46	10 a. m.	+ 0·35	0·81	0·26
September . . . . .	3·24	9 p. m.	— 0·14	11 a. m.	+ 0·15	0·29	0·08
— . . . . .	5·96	3 a. m.	— 0·33	11 a. m.	+ 0·34	0·67	0·21
October . . . . .	2·93	5 a. m.	— 0·22	8 p. m.	+ 0·13	0·35	0·10
— . . . . .	6·75	2 a. m.	— 0·38	1 p. m.	+ 0·33	0·71	0·22
November . . . . .	2·85	8 p. m.	— 0·09	8 a. m.	+ 0·11	0·20	0·04
— . . . . .	6·56	11 p. m.	— 0·35	10 a. m.	+ 0·45	0·80	0·21
December . . . . .	2·79	Midnight	— 0·09	8 a. m.	+ 0·04	0·13	0·03
— . . . . .	6·27	Midnight	— 0·15	Noon	+ 0·15	0·30	0·09
Winter . . . . .	2·96	1 p. m.	— 0·08	11 p. m.	+ 0·08	0·16	0·05
— . . . . .	6·49	2 a. m.	— 0·33	Noon	+ 0·27	0·60	0·20
Spring . . . . .	3·05	4 a. m.	— 0·16	4 p. m.	+ 0·17	0·33	0·09
— . . . . .	6·09	2 a. m.	— 0·53	Noon	+ 0·42	0·95	0·31
Summer . . . . .	3·27	4 a. m.	— 0·09	10 a. m.	+ 0·09	0·18	0·06
— . . . . .	6·34	1 a. m.	— 0·26	1 p. m.	+ 0·21	0·47	0·16
Autumn . . . . .	3·00	4 a. m.	— 0·09	10 a. m.	+ 0·07	0·16	0·04
— . . . . .	6·42	1 a. m.	— 0·30	11 a. m.	+ 0·35	0·65	0·20

	Mean	Minimum		Maximum		Range	M. ord.
	m. p. s.	Hour.	Dev.	Hour.	Dev.	m. p. s.	m. p. s.
Dark Season . . . .	2.93	1 p. m.	- 0.04	11 p. m.	+ 0.06	0.10	0.03
— » — . . . .	6.56	2 a. m.	- 0.32	Noon	+ 0.29	0.61	0.13
Sunny Season . . .	3.16	3 a. m.	- 0.08	3 p. m.	+ 0.11	0.19	0.07
— » — . . . .	6.26	2 a. m.	- 0.38	1 p. m.	+ 0.29	0.67	0.22
Equinoct. Months .	3.19	4 a. m.	- 0.19	2 p. m.	+ 0.11	0.30	0.07
— » — . . . .	5.98	2 a. m.	- 0.41	Noon	+ 0.37	0.78	0.25
Year . . . . .	3.10	4 a. m.	- 0.11	4 p. m.	+ 0.06	0.17	0.04
— . . . . .	6.27	2 a. m.	- 0.37	Noon	+ 0.31	0.68	0.22

In every month and season the range is much greater with the stronger winds than with the weaker. Pl. II (1 cm. = 1 m. p. s.).

*With the weaker winds*, we have in the winter and in the dark season the minimum about noon, and the maximum at 2 a. m. This is the reverse of the general rule. The range is rather small. In the other seasons we have the minimum about 4 a. m., and the maximum about noon, with a relatively small range.

*With the stronger winds*, the period has the ordinary run, with a minimum about 2 a. m. and a maximum about noon. We have in winter and in the dark season a range nearly as great as in the other parts of the year, and in winter even greater than in summer. The spring and the equinoctial months show the greatest range.

This seems to indicate that the diurnal period of the velocity of the wind is vastly more influenced by the average velocity of the wind during the day than by the change of the radiation in the course of the 24 hours.

We have seen that a smaller amount of cloud and a lower average velocity of the wind during 24 hours generally give a smaller range of the diurnal period of the velocity of the wind, and that a larger amount of cloud and a higher velocity of the wind give a greater range of the diurnal period of the velocity of the wind. We have intimated (p. 294) that the first-named conditions point to an anticyclonic, the last-named to a cyclonic state of the atmosphere. In order to verify this relation, I have calculated the mean values of the pressure of the air corresponding to the velocities of the wind

below and above 4·5 metres per second for each month. The numbers used for the pressure are the mean values of the pressure for each day given in the next chapter. The results of this calculation are given in the following tables.

	Mean velocity.	Mean pressure.	Mean velocity.	Mean pressure.	Diffe- rence in pressure.
	m. p. s.	m.m.	m. p. s.	m.m.	m.m.
January 1894-96 . . . . .	3·06	761·4	6·30	757·5	3·9
February — — . . . . .	3·03	64·4	6·90	50·7	13·7
March — — . . . . .	3·13	60·6	6·03	55·2	5·4
April — — . . . . .	2·98	64·5	5·95	60·3	4·2
May — — . . . . .	3·03	63·8	6·30	59·8	4·0
June — — . . . . .	3·15	59·7	6·49	57·0	2·8
July — — . . . . .	3·64	57·4	5·57	53·4	4·0
August 1894-95 . . . . .	3·02	64·0	6·67	56·0	8·0
September — — . . . . .	3·24	57·3	5·96	53·1	4·2
October 1893-95 . . . . .	2·93	64·8	6·75	57·8	7·0
November — — . . . . .	2·85	60·1	6·56	57·4	2·7
December — — . . . . .	2·79	66·0	6·27	55·1	10·9
Year . . . . .	3·10	762·0	6·27	756·1	5·9

The table shows that the weaker winds correspond to a pressure above 760 m.m., and the stronger winds to a pressure below 760 m.m. We know that anticyclonic winds are as a rule the weaker, and cyclonic winds the stronger.

The remarkable magnitude of the range of the diurnal period of the velocity of the wind in the dark season, has induced me to calculate the relative frequency of the different wind-directions in this season, separately for weaker and for stronger winds. The result is given in the following Table. Frequency per cent.

	N	NE	E	SE	S	SW	W	NW	Calm.
Wind velocity									
less than 4·5 m. p. s. . . . .	9·4	12·5	22·3	18·3	12·3	9·5	5·5	8·1	2·4
above 4·5 m. p. s. . . . .	10·4	11·0	15·4	23·1	17·8	7·3	7·8	8·2	0·1



All directions are found. Among the weaker winds, East is most, and West least frequent. Among the stronger winds, South-East is most, and South-West least frequent. October, strongest ESE, weakest W, NW and N. November, strongest E, weakest W. As will be seen further on, the dynamic wind-roses for the dark season give as the strongest winds NNW and SSE, and as the weakest wind E; for the sunny season, strongest wind E, weakest SSW; and for the equinoctial months, strongest winds NE, weakest E.

The frequency of the fresher winds has a diurnal period of a character similar to that of the velocity of the wind in general, as will be seen from the following Table. This Table gives the number of observed winds with a velocity of 10 metres per second and upwards, reduced to bihourly daily observations during the three years from September, 1893, to August, 1896.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.	Total.
October . .	6	2	4	7	3	5	5	6	6	10	5	4	63
November .	2	5	2	6	2	10	2	8	2	8	1	3	51
December .	5	5	5	4	4	6	4	4	5	4	2	4	52
January . .	2	1	1	0	3	5	2	6	3	7	3	5	38
February . .	3	5	5	7	7	5	4	9	4	6	6	4	65
March . . .	0	0	0	0	0	1	2	3	1	4	0	4	15
April . . . .	0	0	0	0	0	0	0	2	2	1	0	0	5
May . . . . .	3	3	3	5	6	5	5	5	2	3	1	1	42
June . . . . .	3	3	3	1	2	2	3	2	4	2	2	3	30
July . . . . .	0	0	3	0	1	1	1	1	1	2	0	1	11
August . . .	2	2	3	1	3	1	1	2	2	0	0	0	17
September .	2	5	2	5	2	6	2	3	2	5	1	3	38
Total	28	31	31	36	33	47	31	51	34	52	21	32	427
Smoothed	30	30	32	34	37	40	40	42	43	40	31	28	

The minimum occurs at midnight, and the maximum at 6 p. m. The frequency of the winds with a velocity equal to, or above, 10 metres per second is below the mean, 35.6, during the night from 9 p. m. to 9 a. m., and above the mean during the day from 9 a. m. to 9 p. m. Pl. I ( $v > 10$  m. p. s. — 1 cm. = 100 cases.

The highest velocities observed in the different months, are distributed in the following manner. The numbers are the maximum velocities in metres per second.

		2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.
September	1893										17.0		
	94							13.9					
	95		12.9										
October	1893				12.2								
	94					14.8							
	95							11.9					
November	1893				17.6								
	94						10.8						
	95						16.2						
December	1893										9.4		
	94							15.9					
	95									10.9			
January	1894						10.0						
	95											12.3	
	96	13.4											
February	1894												
	95				10.4				12.5				
	96									18.0			
March	1894										12.5		
	95							9.2					
	96								11.4				
April	1894								12.7				
	95						8.2						
	96									10.8			
May	1894					13.1							
	95						10.4						
	96						14.0						
June	1894				9.7								
	95												11.6
	96										11.7		
July	1894			10.5									
	95												
	96				8.7					15.1			
August	1894			11.5									
	95				14.7								
	96				13.3								
Total of cases		1	1	2	7	2	6	3	4	4	4	1	1
Smoothed		1	1 <sup>1</sup> / <sub>4</sub>	3	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	4	3 <sup>3</sup> / <sub>4</sub>	4	3 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	1

The frequency of the monthly maxima is below the mean (3.0) from 9 p. m. to 6 a. m., and above the mean from 6 a. m. to 9 p. m. Pl. I (v max. — 1mm. = 1 case).

What we may call gales, or wind-velocities above 15 metres per second, are relatively very rare. Their distribution is as follows.

		2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.
November	1893				17.6		16.2				15.3		
	95	15.5					16.2						
December	1894							15.9	15.5				
February	1896	15.2		15.6	15.7	18.0	16.0	15.4	15.9	15.9	17.2	17.0	16.0
	—								16.0	18.0	15.3	15.1	
	—								17.0	15.4			
Number of cases		2	0	1	2	1	3	3	4	3	3	2	1
Smoothed		1 $\frac{1}{4}$	$\frac{3}{4}$	1	1	1 $\frac{3}{4}$	2 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{2}$	3 $\frac{1}{4}$	2 $\frac{3}{4}$	2	1 $\frac{1}{2}$

The frequency of stronger winds has its minimum at 4 a. m., and its maximum at 4 p. m. It is below the mean from 9 p. m. to 11 a. m., and above the mean from 11 a. m. to 9 p. m. Pl. I ( $v > 15$  m. p. s. — 1 mm. = 1 case).

Taking the totals of Calms in the Tables on p. 256 to 267, for each hour of observation, smoothing them by the formula on p. 291, and dividing them by 3 (September 2), we obtain the following Table, showing the mean number of cases observed, and the diurnal period of the frequency of calms.

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.	Month
October . . .	1.5	1.7	1.3	0.7	0.6	0.4	0.4	0.5	0.4	0.3	0.6	1.1	9.5
November . .	1.2	1.1	0.9	0.6	0.6	0.7	0.6	0.6	1.1	1.5	1.4	1.1	11.4
December . .	0.8	0.9	1.0	0.8	0.5	0.3	0.5	0.9	0.6	0.3	0.5	0.8	7.9
January . . .	0.6	0.3	0.1	0.0	0.0	0.1	0.4	0.4	0.4	0.5	0.6	0.9	4.3
February . .	0.4	0.5	0.6	0.7	0.7	0.7	0.5	0.3	0.4	0.7	0.5	0.4	6.4
March . . . .	0.8	1.5	0.9	0.4	0.1	0.2	0.1	0.0	0.2	0.4	0.3	0.4	5.3
April . . . . .	0.5	0.4	0.3	0.3	0.3	0.3	0.4	0.5	0.3	0.2	0.3	0.4	4.2
May . . . . .	0.3	0.3	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.6	0.5	0.3	3.3
June . . . . .	0.3	0.3	0.6	0.5	0.3	0.2	0.1	0.0	0.0	0.2	0.4	0.4	3.3
July . . . . .	1.1	0.8	0.6	0.3	0.1	0.0	0.0	0.0	0.2	0.5	0.7	1.0	5.3
August . . . .	1.0	1.2	1.2	0.8	0.8	0.8	0.6	0.7	0.6	0.3	0.6	0.9	9.5
September . .	0.6	1.0	1.1	0.8	0.5	0.6	0.6	0.3	0.1	0.5	0.8	0.6	7.5

	2 a.m.	4 a.m.	6 a.m.	8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Mnt.	Month
Winter . . . .	1·8	1·7	1·7	1·5	1·2	1·1	1·4	1·6	1·4	1·5	1·6	2·1	18·6
Spring . . . .	1·6	2·2	1·4	0·9	0·5	0·6	0·7	0·7	0·8	1·2	1·1	1·1	12·8
Summer . . . .	2·4	2·3	2·4	1·6	1·2	1·0	0·7	0·7	0·8	1·0	1·7	2·3	18·1
Autumn . . . .	3·3	3·8	3·3	2·1	1·7	1·7	1·6	1·4	1·6	2·3	2·8	2·8	28·4
Dark Season	4·5	4·5	3·9	2·8	2·4	2·2	2·4	2·7	2·9	3·3	3·6	4·3	39·5
Sunny Season	3·2	3·0	2·9	2·1	1·6	1·4	1·3	1·4	1·4	1·8	2·5	3·0	25·6
Equin. Months	1·4	2·5	2·0	1·2	0·6	0·8	0·7	0·3	0·3	0·9	1·1	1·0	12·8
Year . . . . .	9·1	10·0	8·8	6·1	4·6	4·4	4·4	4·4	4·6	6·0	7·2	8·3	77·9

From these Tables and the diagrams (Pl. I. 1 mm. = 1 case), we find the following hours and values of the daily maxima and minima, and of the diurnal range of the frequency of Calms.

	Maximum		Minimum		Range.
	hour.	w.	hour.	w.	
Winter . . . . .	Mnt.	2·1	Noon	1·1	1·0
Spring . . . . .	4 a. m.	2·2	10 a. m.	0·5	1·7
Summer . . . . .	2 a. m.	2·4	3 p. m.	0·7	1·7
Autumn . . . . .	4 a. m.	3·8	4 p. m.	1·4	2·4
Dark Season . . . .	3 a. m.	4·5	Noon	2·2	2·3
Sunny Season . . .	2 a. m.	3·2	2 p. m.	1·3	1·9
Equinoct. Months .	4 a. m.	2·5	5 p. m.	0·3	2·2
Year . . . . .	4 a. m.	10·0	2 p. m.	4·4	5·6

The frequency of calms has its maximum in the early morning hours, and its minimum in the hours about noon or a little later. The period is the reverse of the period of the velocity of the wind, of the frequency of the fresher winds, of the frequency of the monthly maxima of the velocity, and of the frequency of the stronger winds.

## WIND-VELOCITY. ANNUAL PERIOD.

The following Table gives the mean velocity of the wind for the various months. The numbers are the same as those in the last column in the table on page 289.

Year.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1893	4.78	4.61	3.25									
94	5.53	3.97	5.81	3.56	3.61	4.57	4.14	5.14	3.84	4.35	3.49	4.80
95	4.52	4.22	3.78	4.47	4.03	3.48	3.28	4.87	5.73	5.03	5.01	4.68
96				5.37	5.93	4.69	4.72	4.89	4.12	3.81	4.42	
Mean	4.94	4.27	4.28	4.47	4.52	4.25	4.05	4.97	4.56	4.40	4.31	4.74
Diff. fr. mean	+0.46	-0.21	-0.20	-0.01	+0.04	-0.23	-0.43	+0.49	+0.08	-0.08	-0.17	+0.26

These means give an annual mean of 4.48 m. p. s. corresponding to Wind-Force 3.5, Beaufort Scale. The monthly mean velocity is below the annual mean in November, December, January, March, April, July and August, and above the mean in October, February, May, June and September. Minima occur in November, April and August, maxima in October, February and May.

The monthly means do not show any regular annual period. Pl. I. (mean v. — 1 cm. = 1 m. p. s.; diff. fr. mean).

The annual march of the frequency of the fresher winds with a velocity above 10 m. p. s., is shown in the following table; the numbers are the same as those in the column "Total" of the table on page 305.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Mean
Diff. fr. mean	63	51	52	38	65	15	5	42	30	11	17	38	35.6
	+ 27	+ 15	+ 16	+ 2	+ 29	- 21	- 31	+ 6	- 6	- 25	- 19	+ 2	

From October to March, the frequency of the fresher winds is above the monthly average for the year. From March to September it is below, with the exception of May, which is slightly above. The summer season is gener-

ally quieter than the winter season. (Pl. I. v.  $> 10$  m.; 1 mm. = 10 cases; diff.)

The number of days on which the velocity of the wind has reached 10 m. p. s. and upwards is

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Mean
Diff. fr. mean	9 + 3	7 + 1	7 + 1	6 0	13 + 7	2 - 4	2 - 4	6 0	7 + 1	4 - 2	4 - 2	9 + 3	6·3

The number of days with an observed wind-velocity above 10 m. p. s. is above the general average (6·3) per month in September, October, November, December, February and June. It is below the mean in March, April, July and August.

There are minima in March, July—August and January; maxima in February, June, September—October. There is no regular annual period. The summer season is quieter than the winter season. (Pl. I, days v.  $> 10$ ; 1 mm. = 1 day; diff.)

The general march of the frequency of the cases, and the number of days with fresher winds, is the same from month to month. The march of the mean velocity for the months has also the same character as that of days with stronger winds, 15 to 18 m. p. s.; there are 3 in November, 2 in December and 1 in February.

The highest observed velocity of the wind being only 18 metres per second, we find no storm proper along the route of the Fram.

The following Table shows in the first row the mean number of calms, reduced to bihourly observations, for each month (Table, p. 307). Dividing these numbers respectively by the total number of observations made in the month ( $12 \times$  number of days in the month), and multiplying by 1000, we get the numbers in the second row. These numbers, express (per mille) the probability of calms in each month and the year.

Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Year
9·5	11·4	7·9	4·3	6·4	5·3	4·2	3·3	3·3	5·3	9·5	7·5	77·9
25	32	21	12	19	14	12	9	9	14	26	21	178

The mean of the first row is 6·5.

The frequency of calms has a maximum in November, and a minimum in May. (Pl. I. Calm days; 1 mm. = 1 day) It is above the mean from August to the end of the year, and below the mean from January to July. Calms are very rare as compared with cases with wind. The proportion is 18 to 982, or 1 to 55.

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### DYNAMIC WIND-ROSES.

Taking, for each month, the sum of the numbers expressing the velocity of the wind in metres per second, for each direction of the wind (32 points), and dividing the sum by the corresponding number of observations, we get a series of numbers representing the mean velocity of each of the winds blowing from the various points of the compass, commonly called the dynamic wind-rose, or the wind-rose for the velocity of the different winds.

In order to reduce the wind-directions to 16 points, I have taken for the intermediate points half the sum of the velocities and half the number of observations, and added these halves to the sum and to the number for the adjacent 16 points; I have then added the 3 velocity-numbers and the 3 observation-numbers (weights), and divided the first sum by the last.<sup>1</sup>

The following Table shows the numbers thus obtained.

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<sup>1</sup> The exact reduction is not one half, but 0.5 sec.  $11\frac{1}{4}^{\circ}$ , or 0.5098. The resulting error in the computed mean velocity is very small, the addition of 0.98 per cent affecting the denominator as well as the numerator.

DYNAMIC WIND-ROSES. m. p. s.

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
1893. October ..	503	424	317	496	253	290	318	326	299	481	457	515	664	664	624	690
November .	405	400	393	180	217	360	423	464	443	565	734	673	699	560	733	515
December .	413	397	378	375	300	299	311	287	406	400	234	318	318	720	676	660
1894. January ..	266	316	250	281	302	402	453	427	373	357	238	290	267	280	255	230
February .	337	307	275	245	248	332	329	417	449	481	482	333	488	478	354	360
March ....	457	427	806	379	020	534	510	385	379	367	396	376	480	455	601	552
April .....	203	401	540	483	411	548	373	366	420	305	187	254	309	328	275	0
May .....	332	342	461	537	624	511	429	435	386	424	327	395	353	500	0	510
June .....	410	512	512	224	266	326	344	404	411	313	487	489	346	327	424	417
July .....	502	432	342	210	0	833	514	423	394	382	422	458	440	480	478	437
August ....	313	276	437	521	554	598	367	178	373	328	334	312	288	372	397	436
September.	448	577	615	608	487	741	406	507	163	445	439	280	306	559	488	455
October ..	436	520	630	793	700	741	589	434	339	369	299	280	262	364	386	391
November .	388	382	460	329	312	295	360	412	447	466	548	530	416	317	325	383
December .	300	472	344	352	429	537	756	939	658	501	616	513	549	340	480	502
1895. January ..	396	407	287	317	297	285	439	498	475	433	314	356	519	525	682	506
February .	505	398	376	357	292	372	307	370	388	404	438	574	518	608	590	550
March ....	0	0	382	407	296	292	357	347	334	274	367	435	358	309	233	0
April .....	250	309	422	304	340	341	430	486	305	249	275	264	264	211	302	260
May .....	257	460	442	443	569	602	563	572	536	495	491	394	393	461	401	360
June .....	449	584	551	636	611	694	714	433	425	480	445	618	388	564	941	585
July .....	396	385	460	486	642	570	509	446	479	567	617	580	648	401	330	350
August ....	388	380	0	742	671	546	464	441	500	497	464	610	503	448	491	404
September.	346	369	385	354	359	437	625	448	444	494	464	438	499	500	504	450
October ..	604	437	542	467	323	333	446	506	587	375	365	448	499	259	528	493
November .	637	345	439	493	276	270	282	465	636	399	442	200	384	210	260	271
December .	350	329	392	475	480	397	599	745	459	340	160	200	280	210	437	573
1896. January ..	677	623	585	550	415	397	549	576	658	515	711	604	492	491	485	675
February .	756	908	1140	701	663	744	649	576	658	460	230	430	319	270	406	500
March ....	425	474	571	406	409	351	418	445	365	575	545	476	324	270	387	380
April .....	504	418	377	561	547	451	405	571	581	430	200	324	197	385	591	680
May .....	479	342	430	467	451	497	516	410	543	711	547	386	337	378	589	660
June .....	677	592	456	501	465	387	334	296	384	337	323	291	479	754	514	609
July .....	567	370	332	357	358	347	300	343	384	420	397	406	333	514	718	609
August ....	647	520	514	527	327	239	228	229	260	297	340	392	505	607	567	552



Taking the above-named denominators (the relative number of observations) as weights, and computing the weighted means for each month for the 3 years of observation (September 2 years), we obtain the following Table.

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
1893, 94, 95.	5.10	4.45	5.31	6.00	5.35	6.22	5.15	4.90	5.17	3.87	3.73	4.39	4.66	5.33	5.12	5.03
October . . . . .	5.37	3.65	4.46	4.17	2.92	2.96	3.69	4.42	5.51	4.63	5.49	5.47	5.02	3.48	4.34	4.50
November . . . . .	3.55	3.66	3.82	4.07	4.49	4.59	6.05	5.99	4.55	4.46	4.23	4.19	4.78	5.35	3.41	3.82
December . . . . .	6.04	5.49	4.28	4.46	3.79	3.86	5.06	5.52	4.42	4.03	2.91	3.41	4.80	4.95	5.56	5.67
1894, 95, 96.	5.76	5.75	6.88	5.33	3.98	4.39	4.56	4.48	4.61	4.52	5.53	5.00	5.00	5.27	4.81	6.24
January . . . . .	4.43	4.38	5.14	4.02	3.11	3.16	4.18	4.06	3.49	4.64	4.38	4.38	4.03	3.94	5.43	5.42
February . . . . .	3.61	3.69	4.31	5.01	4.46	4.99	3.95	4.44	4.60	2.19	2.63	2.80	2.64	2.73	3.28	3.31
March . . . . .	4.04	3.83	4.46	5.29	5.90	5.31	5.10	4.78	5.23	6.34	4.95	3.65	3.62	4.01	5.13	5.82
April . . . . .	4.94	5.63	5.27	5.62	4.97	5.19	5.23	3.73	3.77	3.88	3.97	4.38	3.86	5.21	4.70	4.30
May . . . . .	4.34	3.87	4.13	4.14	5.04	4.45	4.34	3.97	4.14	4.76	4.95	4.95	4.96	4.73	4.75	4.49
June . . . . .	3.92	3.63	4.63	5.53	6.03	5.10	3.88	3.77	4.27	3.74	4.60	5.25	4.13	4.19	3.99	3.94
July . . . . .	4.15	5.23	5.60	4.96	4.24	4.15	5.23	4.82	2.90	4.76	4.56	5.70	4.48	5.00	4.89	4.44
1894, 95.																
August . . . . .																
September . . . . .																

Smoothing the numbers in this Table by means of the formula given on p. 291, we obtain the following Table.

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
1893, 94, 95.	4.91	4.85	5.38	5.67	5.78	5.80	5.44	5.04	4.88	4.30	3.95	4.28	4.76	5.13	5.14	5.07
October . . . . .	4.85	4.43	4.23	3.78	3.10	3.10	3.64	4.47	4.99	5.08	5.27	5.40	4.89	4.21	4.28	4.74
November . . . . .	3.63	3.69	3.87	4.16	4.43	4.92	5.65	5.82	5.11	4.45	4.32	4.37	4.73	4.48	3.77	3.65
December . . . . .	5.84	5.44	4.68	3.96	3.98	4.23	5.01	5.13	4.65	4.05	3.46	3.81	4.46	5.07	5.45	5.75
1894, 95, 96.	5.94	6.00	6.13	5.12	4.35	4.37	4.49	4.53	4.55	4.81	5.17	5.14	5.08	5.12	5.35	5.84
January . . . . .	4.64	4.64	4.70	3.85	3.24	3.39	3.86	3.90	3.83	4.24	4.67	4.40	4.10	4.25	4.98	5.19
February . . . . .	3.59	3.89	4.35	4.69	4.75	4.61	4.33	4.39	4.21	3.37	2.47	2.69	2.70	2.89	3.17	3.39
March . . . . .	4.46	4.12	4.60	5.38	5.65	5.43	5.13	4.95	5.36	5.88	4.95	3.88	3.72	4.23	5.05	5.28
April . . . . .	4.92	5.38	5.48	5.27	5.10	5.13	4.95	4.25	3.54	3.61	3.91	4.15	4.38	4.89	4.73	4.54
May . . . . .	4.26	4.04	4.06	4.27	4.59	4.49	4.23	4.09	4.29	4.68	4.90	4.95	4.90	4.80	4.70	4.55
June . . . . .	3.14	4.01	4.80	5.59	5.68	5.14	4.23	3.77	3.94	4.12	4.62	4.81	4.42	4.11	4.03	3.96
July . . . . .	4.47	5.01	5.30	4.96	4.49	4.51	4.25	4.35	3.72	4.17	5.05	5.61	4.94	4.80	4.83	4.53
1894, 95.																
August . . . . .																
September . . . . .																

The weighted and smoothed means for the meteorological seasons, (Dec.—Febr. etc.), the dark season, the sunny season, and the equinoctial months, are given in the following Table.

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
Winter . . . . .	4.12	4.31	4.50	4.34	4.38	4.66	5.01	4.84	4.20	4.13	4.43	4.57	4.80	5.03	5.21	5.26
Spring . . . . .	4.20	4.24	4.53	4.69	4.68	4.58	4.47	4.36	4.28	4.22	4.10	3.88	3.78	3.98	4.30	4.40
Summer . . . . .	4.51	4.68	4.87	5.08	5.14	4.92	4.52	4.12	4.05	4.23	4.48	4.62	4.62	4.57	4.48	4.39
Autumn . . . . .	4.76	4.79	4.87	4.74	4.59	4.58	4.65	4.66	4.62	4.64	4.81	4.91	4.89	4.80	4.78	4.77
Dark Season . .	5.04	4.70	4.65	4.49	4.38	4.58	4.94	5.05	4.82	4.53	4.54	4.68	4.82	4.92	5.00	5.27
Sunny Season .	4.29	4.32	4.70	5.06	5.27	5.06	4.65	4.34	4.22	4.20	4.32	4.42	4.37	4.41	4.41	4.36
Equin. months .	4.54	4.83	4.98	4.32	3.59	3.66	4.15	4.04	3.79	4.22	4.84	4.87	4.58	4.57	4.89	4.77

As will be seen from these Tables, there is no great difference between the mean velocity of the winds from different quarters. The velocity ranges generally between 4 and 5 metres per second. The strongest and weakest winds are:

(Diagrams Pl. I. 1 cm. = 1 m. p. s.).

	Strongest Winds.				Weakest Winds.			
Winter . . . . .	NNW	5.3	SE	5.0	ENE	4.3	SSW	4.1
Spring . . . . .	ENE	4.7	NNW	4.4	N	4.2	W	3.8
Summer . . . . .	E	5.1	W	4.6	S	4.1	NNW	4.4
Autumn . . . . .	NE	4.9	WSW	4.9	ESE	4.6	N	4.8
Dark Season . . . . .	SSE	5.1	NNW	5.3	E	4.4	SSW	4.5
Sunny Season . . . . .	E	5.3	WSW	4.4	SSW	4.2	N	4.3
Equinoctial months . . . .	NE	5.0	WSW	4.9	E	3.6	S	3.8

From the sums of the observed velocities for each of the 16 wind-directions, I have computed, for each month, the corresponding North-, East-, South- and West-Components, the resultant-direction of the wind, and the resultant velocity-sum (Res.); from this, by dividing by the number of observations (n), the resultant velocity (V) in metres per second is obtained. The following Table shows the result of this computation.

## WIND-RESULTANTS.

Month.	N	E	S	W	Direction.	Res.	n.	V.
	Comp.	Comp.	Comp.	Comp.				m.p.s.
1893. October . . . . .	426	79	147	440	N 52° W	457	177	2·58
— November . . . . .	125	183	444	276	S 16 W	332	175	1·90
— December . . . . .	164	245	307	104	S 45 E	201	193	1·04
1894. January . . . . .	33	237	443	91	S 20 E	435	184	2·36
— February . . . . .	129	100	315	242	S 37 W	234	168	1·39
— March . . . . .	446	236	330	405	N 56 W	205	254	0·81
— April . . . . .	173	852	754	74	S 53 E	971	358	2·71
— May . . . . .	285	1479	417	50	S 85 E	1435	367	3·91
— June . . . . .	539	222	458	599	N 78 W	386	375	1·03
— July . . . . .	423	159	421	1027	W	868	372	2·33
— August . . . . .	371	364	339	562	N 81 W	201	371	0·54
— September . . . . .	465	557	323	443	N 14 E	456	360	1·27
— October . . . . .	358	1405	648	194	S 77 E	1245	371	3·36
— November . . . . .	363	536	510	411	S 40 E	193	360	0·54
— December . . . . .	164	1329	1060	201	S 52 E	1441	372	3·87
1895. January . . . . .	295	316	848	538	S 22 W	596	363	1·64
— February . . . . .	214	536	567	355	S 27 E	397	337	1·18
— March . . . . .	48	673	476	223	S 46 E	621	367	1·69
— April . . . . .	448	448	377	215	N 73 E	244	355	0·69
— May . . . . .	337	993	581	315	S 70 E	720	371	1·94
— June . . . . .	704	910	426	533	N 54 E	469	359	1·31
— July . . . . .	405	397	770	804	S 48 W	547	373	1·47
— August . . . . .	320	509	607	890	S 53 W	477	371	1·29
— September . . . . .	260	356	628	881	S 55 W	641	358	1·79
— October . . . . .	406	692	710	299	S 52 E	497	372	1·34
— November . . . . .	683	476	443	268	N 41 E	318	360	0·88
— December . . . . .	494	799	313	55	N 76 E	766	372	2·06
1896. January . . . . .	1001	835	439	249	N 46 E	812	369	2·20
— February . . . . .	790	659	625	727	N 23 W	178	345	0·52
— March . . . . .	286	547	912	345	S 18 E	657	371	1·77
— April . . . . .	588	829	518	144	N 84 E	689	360	1·91
— May . . . . .	645	488	547	578	N 48 W	133	366	0·37
— June . . . . .	437	375	484	503	S 70 W	136	338	0·40
— July . . . . .	212	250	613	408	S 22 W	431	292	1·48
— August . . . . .	207	119	72	209	N 34 W	163	108	1·51

The wind-resultants will be subjected to a fuller discussion in connexion with the pressure of the air. The numbers of the Table agree very well with the constructions on Plates XVIII to XXVIII in Vol. III of this Report.

## THE PRESSURE OF THE AIR.

### THE DIURNAL PERIOD.

For the determination of the diurnal period of the pressure of the air, I have taken the regular readings of the barometer made each second or fourth hour given in the "Observations", and the registrations of the barograph. The latter were controlled by, and reduced to, the corrected observations made with the mercury barometer.

The hours of the barograph were controlled and verified by simultaneous comparisons between the position of the pen of the barograph and the stand of the chronometer HOHWÜ 639 (Vol. II, No. 6, XIX), from which the exact local hour was computed from Prof. GEELMUYDEN's astronomical tables in Vol. II, No. 6, H, p. 86. These comparisons were noted at the beginning and the end of the barograph-sheets for each week, and also in the meteorological Journal for almost every day. By these means it has been possible to find the exact time corresponding to each registered value of the pressure of the air.

For each observed and duly corrected height of the mercury barometer, the corresponding height registered by the barograph was read off the sheets. The difference is the correction to be applied to the registered values. For each hour the registered value was read off from the barograph-sheets, and corrected to the true pressure by means of the corrections thus found. As these generally varied somewhat, their magnitude for each hour was taken from a linear interpolation from one hour of observation to the next. This interval is generally 4 hours.

The barograph stood in the cabin. It was kept going from the 6th July, 1893, to the 10th August, 1896. The registrations have been reduced from the 1st August, 1893, to the 31st July, 1896.

The hourly values of the pressure of the air thus found are given in the following tables for each month from August, 1893, to July, 1896.

The day is reckoned from midnight to midnight. The tables give the mean pressure of each day as the mean of the 24-hourly values in the horizontal rows, and the monthly means for each hour as the means of the numbers in the vertical columns. The mean for the whole month stands as the mean of the numbers in the vertical column headed *Mean*, or of the numbers in the horizontal row of means.

The hourly means have been corrected in the usual way<sup>1</sup> for the change due to the variation from the beginning to the end of the month, and reduced to noon in order to render them representative of the true diurnal period. The corrected values are given in the tables as *Corr.* in the last horizontal row but one. The last horizontal row, headed *D. f. m.* (Difference from mean) gives the Difference, i. e. hourly corr. mean minus monthly mean, for each of the 24 hours. This series represents the diurnal period of the pressure of the air as it is deduced from the observations.

See p. 390

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<sup>1</sup> H. WILD. Die Temperaturverhältnisse des Russischen Reiches. Erste Hälfte, p. 9.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1893. AUGUST.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	68.5	68.8	68.9	69.1	69.1	69.0	69.0	68.9	68.4	68.3	67.9	67.6
2	69.0	69.1	69.4	69.7	69.4	69.5	69.1	69.2	69.4	69.2	69.0	68.4
3	61.1	60.4	59.3	58.4	57.4	56.9	56.2	55.4	55.3	55.2	54.9	54.9
4	59.5	59.9	60.2	60.5	60.4	60.4	60.5	60.6	60.8	61.0	61.2	61.5
5	61.4	61.4	61.7	61.8	61.7	61.8	61.6	61.5	61.1	60.2	60.1	59.7
6	57.7	57.5	57.3	57.2	56.7	56.6	56.3	55.9	55.7	55.2	55.0	55.0
7	62.0	62.4	62.6	62.5	63.0	63.6	64.0	64.8	64.7	64.8	65.0	64.9
8	65.5	65.7	65.7	65.3	64.9	64.6	64.4	63.9	63.6	63.3	63.0	62.8
9	57.5	57.2	56.6	56.2	55.5	54.7	54.0	53.1	53.4	54.0	54.4	55.8
10	62.3	62.1	62.0	62.1	62.2	62.4	62.4	62.4	62.3	62.3	62.3	62.0
11	59.3	59.3	59.5	59.5	59.0	58.9	58.8	58.7	58.8	58.5	58.6	59.1
12	59.2	59.2	59.3	59.3	58.8	58.0	57.7	57.3	56.8	56.6	56.3	55.7
13	54.6	54.8	54.9	55.0	55.1	55.3	55.4	55.5	56.2	56.3	56.2	56.0
14	55.7	55.8	56.0	56.1	56.1	56.4	56.6	56.7	57.4	57.4	58.2	57.2
15	58.5	58.8	59.0	59.2	59.3	59.4	59.6	59.8	59.9	60.3	60.8	60.8
16	60.1	60.0	59.8	59.6	59.6	59.0	58.4	57.5	57.6	57.8	57.6	57.2
17	57.7	58.0	58.6	59.1	59.8	60.1	60.3	61.0	61.4	61.8	62.0	62.1
18	62.5	62.2	61.4	60.8	60.4	60.0	59.8	59.5	59.0	58.6	58.3	57.9
19	55.7	55.9	56.0	56.4	55.7	56.8	56.9	57.1	57.3	57.6	57.5	57.8
20	61.3	61.6	62.1	62.3	62.4	62.6	62.9	63.1	63.4	63.6	63.7	63.8
21	64.9	65.0	65.0	64.9	65.0	65.1	65.4	65.8	65.7	65.8	66.4	66.4
22	66.7	67.0	67.2	67.5	67.7	67.7	68.0	68.1	68.2	68.3	68.3	68.4
23	65.8	66.3	66.7	66.6	66.0	65.6	64.7	63.6	63.3	63.0	62.4	61.9
24	59.1	59.1	58.7	58.4	58.4	58.2	57.8	57.4	57.1	56.8	56.3	55.9
25	56.3	56.8	57.1	56.8	56.2	56.0	55.8	55.6	56.1	56.4	56.4	56.9
26	57.4	57.3	57.5	57.5	57.6	57.7	57.8	57.8	58.0	58.2	58.4	58.7
27	59.6	59.8	60.0	60.2	60.0	59.9	59.8	59.6	59.5	59.6	59.8	59.5
28	58.8	58.5	58.5	58.6	58.7	58.7	58.8	59.0	59.1	59.1	59.1	58.4
29	57.5	57.5	57.6	57.5	57.3	57.3	57.3	57.0	56.9	56.7	56.4	56.3
30	55.5	55.6	55.7	55.8	55.5	55.3	55.1	54.9	55.2	55.4	55.5	55.4
31	55.7	55.7	55.9	56.0	56.0	56.0	55.9	55.7	55.7	55.7	55.7	55.6
Mean	60.21	60.28	60.33	60.32	60.19	60.11	60.01	59.88	59.91	59.90	59.89	59.79
Corr.	60.02	60.10	60.17	60.18	60.07	60.00	59.92	59.81	59.86	59.86	59.87	59.79
D. f. m.	+ 0.06	+ 0.14	+ 0.21	+ 0.22	+ 0.11	+ 0.04	- 0.04	- 0.15	- 0.10	- 0.10	- 0.09	- 0.17

1893. AUGUST.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean.	Day.
67.4	67.3	67.1	66.9	67.2	67.4	67.7	68.0	68.3	68.5	68.7	69.0	68.2	1
68.1	67.9	67.5	66.5	66.0	65.5	65.0	64.6	64.2	63.5	62.7	61.9	67.2	2
55.0	55.0	55.3	55.6	55.8	56.0	56.3	57.0	57.4	58.3	58.8	59.0	56.8	3
61.7	62.1	62.3	62.3	62.5	62.2	62.1	62.0	61.8	61.8	61.5	61.4	61.3	4
59.5	59.4	59.4	59.5	59.8	59.7	59.4	59.3	58.8	58.7	58.5	58.0	60.0	5
55.4	56.2	57.5	58.4	58.9	58.9	59.0	59.2	59.7	60.4	61.0	61.3	57.6	6
65.1	65.3	65.8	66.3	66.3	66.2	65.9	65.8	65.8	65.7	65.6	65.5	64.7	7
62.7	62.0	61.4	60.8	60.8	60.5	60.0	60.0	59.2	59.1	58.8	58.1	62.3	8
56.6	58.3	59.2	60.2	60.7	60.9	61.2	61.4	61.6	61.8	62.0	62.4	57.8	9
61.7	61.3	61.1	61.0	60.4	60.2	60.1	59.7	59.3	59.6	59.6	59.4	61.3	10
59.4	59.8	60.1	59.1	59.8	59.6	59.7	59.7	59.5	59.7	59.5	59.4	59.3	11
55.6	55.6	55.3	55.1	54.8	54.6	54.4	54.2	54.2	54.3	54.5	54.6	56.3	12
55.8	55.8	55.7	55.5	55.4	55.3	55.3	55.0	55.2	55.3	55.4	55.6	55.4	13
56.4	56.7	56.7	56.6	56.8	56.6	56.7	57.0	57.2	57.4	57.7	58.2	56.8	14
60.7	60.4	60.7	60.8	60.8	60.7	60.7	60.6	60.6	60.5	60.4	60.2	60.1	15
57.0	56.9	56.9	57.0	56.7	56.5	56.5	56.5	56.6	56.9	57.2	57.3	57.7	16
62.3	62.7	63.0	63.3	63.7	63.4	63.2	62.7	62.8	62.7	62.6	62.6	61.5	17
57.3	57.2	57.1	56.9	56.3	56.1	55.9	55.9	55.9	55.8	55.6	55.6	58.2	18
58.1	58.5	58.9	59.2	59.6	59.8	55.9	60.2	60.5	60.6	60.8	61.1	58.3	19
63.7	63.6	63.7	63.5	63.5	63.6	63.8	63.7	64.0	64.2	64.6	64.9	63.3	20
66.4	66.4	66.5	66.5	66.5	66.7	67.0	67.1	66.8	66.7	66.6	66.4	66.0	21
68.2	67.8	67.6	67.4	67.3	67.3	67.1	67.0	66.8	66.2	66.1	66.0	67.4	22
61.8	61.8	61.5	61.7	61.3	61.0	60.8	60.9	60.1	60.0	59.7	59.5	62.7	23
55.9	56.0	56.0	55.9	55.9	55.8	55.8	55.9	55.8	55.7	55.7	55.8	56.8	24
57.1	57.1	56.9	56.9	56.8	56.6	56.5	56.8	56.9	56.9	57.0	57.4	56.6	25
58.4	58.5	58.9	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.3	59.3	58.4	26
59.5	59.6	59.7	60.0	60.1	59.9	59.7	59.6	59.5	59.3	59.1	58.9	59.7	27
58.4	58.7	59.1	59.1	59.1	58.9	58.7	58.6	58.3	58.1	58.0	57.7	58.4	28
56.3	56.3	56.3	56.7	56.5	56.2	56.0	55.8	55.7	55.7	55.5	55.4	56.5	29
55.4	55.5	55.7	55.7	55.8	55.8	55.9	56.0	56.0	56.0	55.9	55.8	56.0	30
55.8	55.9	56.1	56.2	56.0	55.8	55.4	55.3	55.3	55.3	55.3	55.3	56.1	31
59.76	59.85	59.97	59.99	60.01	59.90	59.84	59.83	59.74	59.80	59.80	59.77	59.96	Mean
59.78	59.89	60.02	60.06	60.10	60.01	59.96	59.97	59.90	59.98	59.99	59.98		Corr.
- 0.18	- 0.07	+ 0.06	+ 0.10	+ 0.14	+ 0.15	0.00	+ 0.01	- 0.06	+ 0.02	+ 0.03	+ 0.02		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1893. SEPTEMBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	55.0	54.8	54.5	54.3	54.3	54.2	54.0	53.8	53.7	53.8	53.8	53.8
2	53.4	53.3	53.0	53.0	53.0	53.0	53.0	52.8	52.8	52.7	52.9	52.9
3	54.4	54.5	54.6	54.7	54.9	54.9	54.7	54.8	54.7	54.6	54.7	54.9
4	53.2	52.9	52.6	52.4	52.1	51.8	51.3	50.9	50.1	50.0	49.7	49.0
5	43.3	43.0	42.9	42.4	42.2	42.3	42.5	42.6	43.1	43.4	43.8	44.3
6	44.4	44.4	44.4	44.5	44.9	45.4	46.1	46.6	47.1	47.3	47.4	47.5
7	47.0	47.0	46.9	46.8	47.0	47.1	46.9	46.5	46.4	46.2	46.1	45.9
8	44.4	44.1	44.2	44.0	44.4	44.7	44.8	45.1	43.9	43.3	42.7	42.3
9	35.8	35.5	35.5	35.6	35.7	35.7	35.7	35.8	36.0	36.5	37.0	37.2
10	43.4	43.8	43.9	44.1	44.4	44.6	44.8	44.8	44.8	44.9	45.0	45.6
11	53.5	54.1	54.6	55.0	55.4	55.6	55.8	56.1	56.2	56.2	56.3	56.4
12	55.5	55.3	55.0	54.9	55.0	55.1	55.2	54.5	54.6	54.5	54.3	54.5
13	53.6	53.4	53.2	53.0	53.2	53.4	53.5	53.4	53.4	53.3	53.4	53.4
14	56.7	56.7	57.0	57.2	57.5	57.5	57.4	57.2	56.8	56.8	57.0	56.8
15	50.3	49.5	48.7	47.6	46.9	46.4	45.5	44.9	44.9	44.0	43.9	43.9
16	43.9	43.8	43.2	43.0	42.8	42.6	42.1	41.8	41.6	41.5	40.8	40.7
17	42.2	42.7	43.1	43.6	43.9	44.0	44.0	44.3	44.7	45.1	46.0	46.3
18	50.6	50.5	50.4	50.4	50.7	50.9	51.0	51.1	51.4	51.5	51.7	52.7
19	59.9	59.8	59.8	59.8	59.6	59.7	59.2	58.7	58.4	58.1	57.8	57.3
20	54.0	53.9	53.9	53.9	53.7	53.4	53.2	53.3	53.3	53.3	53.2	53.2
21	56.3	56.3	56.5	56.9	57.1	57.3	57.4	57.5	57.6	57.5	57.6	57.5
22	58.7	58.7	58.8	58.8	59.2	59.9	60.2	60.7	61.2	61.8	62.1	62.6
23	63.6	63.4	63.4	63.5	63.7	63.8	63.8	63.7	63.8	63.9	64.0	64.1
24	68.1	68.2	68.5	68.9	69.1	69.6	70.1	70.3	70.7	71.0	71.1	71.3
25	72.4	72.2	72.1	72.0	72.2	72.5	72.6	72.6	72.5	72.0	71.9	71.9
26	71.0	71.1	71.3	71.4	71.4	71.4	71.4	71.5	71.3	71.0	70.8	70.8
27	70.2	70.2	70.2	70.2	69.8	69.3	68.8	68.1	67.6	67.1	66.7	66.3
28	57.7	57.3	56.6	56.1	55.9	55.5	55.1	54.6	54.2	54.2	53.9	54.0
29	59.6	60.0	60.4	60.9	61.1	61.3	61.5	61.6	61.9	62.2	62.4	62.5
30	58.2	57.8	57.7	57.7	58.2	58.7	59.3	59.9	60.8	61.3	61.8	62.2
Mean	54.34	54.27	54.23	54.22	54.31	54.39	54.36	54.33	54.32	54.30	54.33	54.39
Corr.	54.48	54.40	54.35	54.32	54.40	54.47	54.43	54.38	54.36	54.33	54.34	54.39
D. f. m.	- 0.03	- 0.11	- 0.16	- 0.19	- 0.11	- 0.06	- 0.08	- 0.13	- 0.15	- 0.18	- 0.17	- 0.12



1893. SEPTEMBER.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
53·7	53·7	53·7	53·8	53·8	54·0	54·0	53·9	53·8	53·7	53·6	53·4	53·9	1
52·9	52·9	53·1	53·1	53·3	53·4	53·7	53·7	53·8	53·9	54·0	54·2	53·3	2
54·9	55·0	55·0	55·0	55·0	54·8	54·5	54·3	54·0	53·8	53·6	53·3	54·5	3
48·4	47·9	47·2	47·0	46·8	46·4	45·8	45·2	44·9	44·2	43·9	43·5	48·6	4
44·4	44·8	44·9	45·0	45·0	45·0	45·0	44·9	44·9	44·8	44·7	44·6	43·9	5
47·7	47·5	47·5	47·5	47·8	47·9	47·9	48·0	47·4	47·1	47·1	46·9	46·7	6
45·5	45·0	44·6	44·3	44·5	44·5	44·5	44·7	44·8	44·7	44·7	44·7	45·7	7
42·0	41·6	40·3	40·8	40·4	39·8	39·0	38·3	37·3	37·0	36·5	36·0	41·5	8
37·4	38·4	39·3	40·3	41·0	41·7	42·5	43·0	42·8	43·2	43·2	43·0	38·6	9
46·3	47·0	47·8	48·1	48·9	49·3	50·0	50·5	51·0	51·7	52·5	53·2	47·1	10
56·4	56·5	56·7	56·8	57·1	57·1	56·7	56·6	56·5	56·4	56·1	56·9	56·0	11
54·3	54·3	54·3	54·2	54·2	54·3	54·4	54·3	54·3	54·2	54·2	54·0	54·5	12
53·6	53·9	54·3	54·7	54·8	55·0	55·2	55·3	55·9	56·1	56·5	56·7	54·3	13
56·6	56·2	56·0	55·3	54·6	53·3	53·9	53·3	52·8	52·3	51·8	51·0	55·5	14
44·0	44·2	44·4	44·7	44·8	44·9	44·7	44·6	44·6	44·5	44·3	44·3	45·5	15
40·7	40·4	40·3	40·0	39·8	39·7	39·5	39·3	40·2	40·8	41·4	41·8	41·3	16
46·4	46·7	47·0	47·1	47·5	47·8	48·5	48·9	49·4	49·8	50·2	50·7	46·2	17
53·4	54·4	54·9	55·7	56·2	56·9	57·9	58·1	58·8	58·8	59·1	59·5	54·0	18
56·8	56·2	56·0	55·8	55·6	55·3	55·2	55·0	54·9	54·8	54·3	54·0	57·2	19
53·2	53·0	52·9	53·1	53·1	53·8	53·8	54·3	54·8	55·1	55·4	55·7	53·8	20
57·5	57·4	57·5	57·5	58·0	58·0	57·9	57·7	57·7	58·1	58·3	58·5	57·4	21
63·2	63·5	63·6	63·9	64·4	64·5	64·6	64·4	64·3	64·1	63·9	63·8	62·1	22
64·2	64·4	65·0	65·1	65·3	65·7	66·2	66·5	66·8	67·1	67·4	67·7	65·1	23
71·2	71·2	71·3	71·4	71·5	71·9	72·1	72·1	72·3	72·4	72·5	72·5	70·8	24
71·9	72·0	72·1	72·0	72·0	71·9	71·8	71·7	71·4	71·2	71·0	71·0	71·9	25
70·8	70·7	70·6	70·6	70·6	70·8	70·9	70·8	70·6	70·5	70·4	70·3	70·9	26
65·6	65·4	64·8	64·4	64·0	63·5	62·9	62·3	61·2	60·5	59·5	58·8	65·7	27
54·1	54·3	54·6	55·0	55·6	56·2	56·7	57·1	57·5	58·2	58·9	59·3	55·9	28
62·4	62·3	62·1	62·0	62·0	61·7	61·4	60·7	60·4	59·9	59·2	58·8	61·2	29
62·8	63·2	64·1	64·4	64·8	65·2	65·3	65·3	65·2	65·2	65·2	64·7	62·0	30
54·41	54·47	54·53	54·62	54·75	54·81	54·88	54·83	54·81	54·80	54·78	54·73	54·51	Mean.
54·40	54·44	54·49	54·57	54·68	54·73	54·79	54·73	54·69	54·67	54·64	54·57		Corr.
- 0·11	- 0·07	- 0·02	+ 0·06	+ 0·17	+ 0·22	+ 0·28	+ 0·22	+ 0·18	+ 0·16	+ 0·13	+ 0·06		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1893. OCTOBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	64.2	63.2	62.6	61.8	61.3	60.7	60.3	59.4	58.8	58.2	58.1	57.7
2	55.1	54.6	54.3	54.0	54.0	53.7	53.6	53.5	54.1	53.3	53.3	53.4
3	60.2	60.2	60.4	60.6	61.0	61.1	61.2	61.2	61.1	61.4	61.4	61.5
4	63.1	63.1	63.1	62.9	62.7	62.5	62.0	62.0	61.8	61.5	61.4	60.9
5	54.1	53.7	53.6	53.1	52.8	52.7	52.5	52.4	52.1	52.4	52.6	52.9
6	53.5	53.7	54.0	54.4	54.7	55.6	56.2	56.7	56.9	57.0	57.0	57.1
7	58.9	58.9	58.6	58.4	58.3	58.2	58.1	57.9	57.5	57.5	57.6	57.7
8	59.4	58.9	58.5	58.0	58.1	58.1	58.2	58.2	58.4	59.0	59.3	59.7
9	59.0	58.7	58.5	58.4	58.8	59.3	59.6	60.1	60.1	60.3	60.5	60.6
10	62.4	62.3	62.3	62.2	61.8	61.6	61.4	60.9	60.7	60.6	60.4	60.3
11	60.8	61.1	61.6	62.0	62.2	62.8	63.3	63.6	64.1	64.5	65.2	65.5
12	69.8	69.9	70.1	70.2	70.1	70.1	70.2	70.3	70.3	70.3	70.2	70.2
13	73.8	73.4	72.7	72.2	72.2	72.2	72.3	72.4	72.5	72.8	72.9	73.0
14	75.2	74.7	74.6	74.3	74.6	74.9	75.2	75.6	75.4	75.3	75.2	75.0
15	74.4	74.2	74.0	73.7	73.6	73.4	73.2	73.0	72.6	72.5	72.4	72.3
16	69.9	69.7	69.5	69.3	69.2	69.3	68.8	68.7	68.3	68.1	67.9	67.8
17	64.7	64.4	64.3	63.8	63.5	63.4	63.1	62.5	62.4	62.1	61.8	61.3
18	58.4	58.7	58.8	58.6	58.6	58.4	58.2	58.1	58.1	57.9	57.7	57.6
19	55.4	55.1	54.9	54.8	54.5	54.2	53.6	53.4	53.3	53.3	52.9	52.6
20	51.5	51.4	51.3	51.4	51.5	51.7	51.9	51.7	51.9	52.1	52.4	52.6
21	53.7	53.7	53.6	53.5	53.7	53.7	53.8	54.0	53.9	53.8	53.6	53.4
22	53.7	53.7	53.7	53.8	54.0	54.0	54.1	54.4	54.7	54.9	55.0	55.3
23	57.8	57.9	57.9	58.2	58.4	58.8	59.4	59.5	59.6	59.8	60.0	60.1
24	62.2	62.1	62.3	62.5	62.7	62.9	63.3	63.3	63.4	63.5	63.6	63.7
25	62.8	62.4	62.1	61.8	61.7	61.1	60.6	60.1	59.5	58.8	58.2	57.6
26	51.3	51.1	51.2	51.0	51.1	51.3	51.5	51.7	51.8	52.2	52.7	53.1
27	62.1	62.5	63.0	63.4	63.6	64.5	65.2	65.7	66.1	66.5	66.7	67.4
28	72.6	72.8	72.9	73.1	73.3	73.4	73.3	73.3	73.2	73.2	73.3	73.4
29	70.4	69.7	69.1	68.7	68.7	68.4	67.5	67.3	66.9	66.5	66.1	66.1
30	66.2	66.5	66.9	67.1	67.4	67.6	67.9	68.0	68.1	68.1	68.1	68.1
31	67.2	66.9	66.6	66.3	66.2	66.8	65.5	65.2	64.8	64.6	64.3	63.9
Mean	62.06	61.91	61.84	61.72	61.75	61.81	61.77	61.71	61.69	61.68	61.67	61.67
Corr.	62.02	61.88	61.81	61.69	61.73	61.79	61.75	61.70	61.68	61.67	61.67	61.67
D. f. m.	+ 0.17	+ 0.03	- 0.04	- 0.16	- 0.12	- 0.06	- 0.10	- 0.15	- 0.17	- 0.18	- 0.18	- 0.18

1893. OCTOBER.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
57.4	57.1	56.9	56.7	56.9	57.0	56.7	56.4	56.2	55.8	55.5	55.3	58.4	1
58.4	58.3	58.9	55.3	56.3	57.0	58.7	58.8	59.2	59.7	59.8	60.0	55.5	2
61.6	61.8	62.2	62.6	62.7	63.1	63.3	63.3	63.3	63.2	63.2	63.2	61.8	3
60.4	60.2	59.9	59.3	58.9	57.9	57.2	56.5	55.9	55.5	55.0	54.6	59.9	4
53.4	53.4	53.8	54.3	54.5	54.7	54.9	55.0	54.9	54.5	53.9	53.4	53.5	5
57.5	58.9	58.3	58.6	58.8	59.0	58.9	59.0	59.0	58.9	59.0	59.0	57.1	6
57.8	58.0	58.5	58.4	58.5	58.5	58.6	58.7	58.9	59.1	59.5	59.7	58.4	7
59.8	59.5	59.2	59.1	59.3	59.3	59.2	59.1	59.1	58.9	59.0	59.0	58.9	8
60.8	60.9	61.1	61.5	61.9	61.8	61.9	62.1	62.3	62.3	62.4	62.4	60.6	9
60.2	60.0	59.6	59.4	59.2	57.2	59.3	59.6	59.9	59.9	60.0	60.3	60.5	10
66.1	66.6	67.1	67.6	67.8	68.0	68.7	69.0	69.3	69.3	69.6	69.6	65.6	11
71.7	72.4	72.6	72.8	73.1	73.3	73.4	73.8	73.9	73.9	74.1	74.3	71.7	12
72.9	72.9	72.9	73.0	73.1	73.3	73.5	73.6	74.0	74.4	74.9	75.3	73.2	13
75.0	75.0	74.8	74.5	74.6	74.8	74.8	74.6	74.7	74.6	74.6	74.5	74.8	14
72.1	72.0	72.0	71.9	71.8	71.8	71.6	71.5	71.2	70.9	70.6	70.1	72.3	15
67.5	67.3	67.1	66.9	66.8	66.7	66.5	66.1	65.7	65.4	65.2	65.1	67.6	16
61.0	60.5	60.0	59.4	59.2	59.1	59.1	58.8	58.7	58.6	58.4	58.4	61.2	17
57.5	57.5	57.4	57.1	57.0	56.9	56.7	56.6	56.2	55.9	55.6	55.5	57.4	18
52.3	52.0	51.9	51.8	51.8	51.6	51.5	51.5	51.4	51.4	51.4	51.4	52.8	19
52.7	52.8	52.9	53.2	52.5	53.2	53.6	53.8	53.9	54.0	54.0	54.1	52.6	20
53.5	53.3	53.4	53.7	53.7	53.7	53.6	53.5	53.6	53.5	53.4	53.6	53.6	21
55.4	55.7	56.0	56.2	56.5	56.8	57.0	57.0	57.1	57.4	57.7	57.7	55.5	22
60.4	60.2	60.5	60.7	60.9	61.2	61.6	61.7	61.8	61.9	62.0	62.1	60.1	23
63.6	63.6	63.6	63.7	63.7	63.7	63.7	63.6	63.4	63.3	62.9	62.8	63.2	24
56.7	56.1	55.4	54.7	54.4	53.8	53.4	53.0	52.5	52.0	51.5	51.4	57.1	25
53.7	54.3	54.8	55.8	56.8	57.6	58.3	58.8	59.6	60.1	60.6	61.4	54.6	26
67.8	68.2	68.8	69.2	69.9	70.3	70.6	71.2	71.4	71.6	72.2	72.4	67.5	27
73.0	72.9	72.9	72.9	72.7	72.3	72.0	72.0	71.6	71.2	70.8	70.6	72.6	28
66.0	65.8	65.7	65.4	65.2	65.3	65.0	65.0	65.0	65.3	65.5	65.9	66.7	29
68.1	68.1	68.2	68.2	68.3	68.4	68.1	68.1	68.0	67.9	67.6	67.3	67.8	30
63.6	63.5	63.4	63.2	62.8	62.7	62.4	62.3	62.4	62.3	62.3	62.3	64.2	31
61.70	61.73	61.77	61.84	61.92	61.93	62.06	62.06	62.07	62.02	62.00	62.02	61.85	Mean
61.70	61.74	61.78	61.85	61.92	61.95	62.08	62.09	62.10	62.05	62.04	62.06		Corr.
- 0.15	- 0.11	- 0.07	0.00	+ 0.07	+ 0.10	+ 0.23	+ 0.24	+ 0.25	+ 0.20	+ 0.19	+ 0.21		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1893. NOVEMBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	62.6	62.6	62.6	62.5	62.6	62.5	62.6	62.5	62.5	62.5	62.6	62.7
2	62.7	62.7	62.8	62.8	62.7	62.6	62.5	62.4	62.3	62.3	62.2	62.1
3	60.5	60.5	60.5	60.7	61.0	61.6	62.4	62.7	62.9	63.4	63.7	64.5
4	65.8	65.4	65.2	64.6	64.5	64.3	63.9	63.9	63.9	64.0	64.1	64.3
5	64.9	64.8	64.7	64.4	64.2	63.8	63.5	63.2	62.9	62.7	62.5	62.4
6	60.5	60.5	60.5	60.4	60.3	60.1	60.1	59.7	59.1	58.5	58.1	57.7
7	40.7	38.9	38.1	37.1	36.2	35.7	35.5	35.5	36.1	36.4	36.3	36.5
8	55.4	56.7	57.4	58.9	59.5	61.0	62.0	62.5	63.4	64.0	64.2	64.5
9	63.1	62.8	62.8	62.7	62.5	62.7	62.9	62.8	62.8	63.1	63.3	63.7
10	61.3	61.3	61.7	60.7	60.7	60.4	60.4	60.2	60.1	60.1	60.2	60.3
11	59.2	59.0	58.8	58.4	58.3	58.3	58.4	58.4	58.3	57.8	57.8	57.8
12	52.3	52.0	52.1	51.8	51.3	51.4	51.5	51.3	52.3	51.6	51.8	52.0
13	50.5	50.6	50.6	50.8	50.9	51.4	51.8	52.1	52.4	53.0	53.9	54.1
14	59.3	59.5	59.7	59.9	60.7	61.4	61.9	62.2	62.6	63.0	63.5	63.7
15	62.6	62.4	62.3	61.7	61.2	60.7	60.2	59.6	59.0	58.6	58.6	57.7
16	50.3	50.0	49.9	49.8	49.9	49.9	49.9	49.9	49.9	49.7	49.7	49.9
17	53.6	54.0	54.4	54.9	55.9	56.5	56.8	57.5	58.0	58.7	59.4	59.7
18	64.6	64.7	64.7	64.7	65.1	65.2	65.3	65.5	65.4	65.6	65.8	65.8
19	65.4	65.2	65.1	64.8	64.8	64.8	64.7	64.6	64.5	64.2	64.0	64.0
20	60.0	59.7	59.1	58.5	58.0	57.4	56.9	56.2	55.7	55.3	54.7	54.2
21	53.6	54.1	54.6	55.1	55.4	55.6	55.7	56.2	56.9	57.7	58.2	58.8
22	65.2	65.6	66.0	66.1	66.3	66.6	66.9	67.1	67.2	67.1	67.1	67.0
23	63.9	63.3	62.8	62.3	61.8	61.0	60.7	59.9	59.4	58.9	58.7	58.5
24	57.9	57.7	57.0	57.3	57.3	57.3	57.3	57.0	56.8	56.7	56.6	56.5
25	54.4	54.3	54.2	53.8	53.9	53.8	53.6	53.7	53.6	53.6	53.6	53.7
26	56.0	56.1	56.3	56.1	56.8	57.3	57.5	57.9	57.9	58.0	58.0	58.1
27	59.8	60.2	60.7	61.2	61.4	61.8	62.3	62.8	62.9	62.9	63.6	64.1
28	66.4	66.3	66.2	66.4	66.3	66.5	66.7	66.7	66.6	66.6	66.6	66.9
29	68.7	68.7	68.7	68.8	68.9	69.0	68.9	68.9	69.1	68.9	68.7	68.6
30	68.6	68.8	68.8	68.9	69.1	69.2	69.7	70.0	70.1	70.2	70.2	70.2
Mean	59.66	59.61	59.61	59.55	59.58	59.66	59.75	59.76	59.82	59.83	59.92	60.00
Corr.	59.78	59.72	59.71	59.64	59.65	59.72	59.80	59.80	59.85	59.85	59.93	60.00
D. f. m.	- 0.18	- 0.24	- 0.25	- 0.32	- 0.31	- 0.24	- 0.16	- 0.16	- 0.11	- 0.11	- 0.03	+ 0.04

1893. NOVEMBER.

700 mm +

STANDARD GRAVITY.  
SEA-LEVEL.

PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
62.7	62.8	62.8	62.8	62.8	62.8	62.8	62.7	62.7	62.7	62.6	62.7	62.6	1
61.7	61.6	61.5	61.5	61.5	61.4	61.3	61.1	61.0	60.9	60.6	60.5	61.9	2
64.8	65.1	65.7	65.9	66.1	66.3	66.7	66.7	66.7	66.6	66.3	66.1	64.0	3
64.3	64.5	64.7	64.8	65.2	65.2	65.3	65.6	65.6	65.4	65.3	65.1	64.7	4
62.2	61.9	61.7	61.7	61.6	61.6	61.5	61.2	61.1	61.0	60.7	60.5	62.5	5
56.8	55.3	53.7	52.0	50.2	49.1	46.8	45.9	44.9	43.7	42.6	40.9	54.1	6
36.7	38.1	40.0	42.7	44.0	45.4	47.3	48.9	50.4	51.8	52.5	54.3	41.5	7
64.9	65.1	65.2	65.2	65.7	65.6	65.3	64.9	64.5	64.2	63.6	63.2	62.8	8
63.8	63.8	64.1	63.8	63.8	63.5	63.3	63.2	62.6	62.2	62.0	61.8	63.1	9
60.3	60.1	60.0	59.9	59.9	59.9	59.8	59.9	59.8	59.5	59.3	59.3	60.2	10
57.4	57.1	56.4	56.3	55.9	55.5	55.1	54.7	54.3	53.7	53.2	52.4	56.8	11
52.7	53.0	53.3	53.6	53.5	52.2	51.9	51.7	51.1	50.4	49.9	50.1	51.8	12
54.9	55.8	56.4	56.8	57.0	57.3	57.9	58.1	58.2	58.5	60.0	59.2	54.7	13
64.1	64.1	64.6	64.7	64.6	64.6	64.3	64.1	63.9	63.4	63.1	62.8	62.7	14
57.4	56.6	56.1	55.3	54.7	54.1	53.4	52.6	52.1	51.3	50.8	50.4	57.0	15
50.0	50.1	50.4	50.5	50.8	51.1	51.6	51.8	52.0	52.4	52.7	53.3	50.6	16
60.3	60.9	61.2	61.8	62.2	62.8	63.3	63.5	64.0	64.1	64.3	64.5	59.7	17
65.9	65.8	65.9	65.8	66.0	66.0	66.0	65.8	65.7	65.7	65.6	65.5	65.5	18
63.9	63.9	63.6	63.6	63.2	63.1	63.0	62.4	62.0	61.3	60.9	60.4	63.6	19
54.0	53.9	53.9	53.7	53.6	53.5	53.5	53.4	53.1	53.0	53.0	53.1	55.3	20
59.4	60.1	60.5	61.2	61.6	62.5	63.5	64.1	64.3	64.6	64.7	64.9	59.3	21
66.8	66.8	66.8	66.7	65.7	66.8	66.8	66.5	66.0	65.6	65.3	64.5	66.4	22
58.4	58.2	58.1	58.4	58.4	58.4	58.4	58.3	58.3	58.1	57.9	58.0	59.6	23
56.4	56.1	56.1	56.1	56.1	56.1	56.1	55.8	55.6	55.3	54.8	54.7	56.4	24
53.8	53.6	53.6	53.8	54.0	54.3	54.6	54.8	55.0	55.2	55.5	55.7	54.2	25
58.4	58.6	58.5	58.7	58.7	59.0	59.0	59.4	59.4	59.5	59.6	59.7	58.1	26
64.4	64.6	64.9	65.2	65.2	65.9	66.1	66.2	66.1	66.3	66.2	66.2	63.8	27
66.9	66.9	67.3	67.5	67.5	67.7	67.9	68.0	68.2	68.2	68.4	68.7	67.1	28
68.7	68.5	68.4	68.5	68.5	68.6	68.6	68.5	68.4	68.3	68.2	68.4	68.6	29
70.6	70.5	70.4	70.8	70.9	70.9	70.9	70.8	70.7	70.4	70.1	70.0	70.0	30
60.08	60.11	60.19	60.31	60.33	65.37	60.40	60.35	60.25	60.11	59.99	59.89	59.96	Mean
60.07	60.09	60.16	60.27	60.28	60.31	60.33	60.26	60.15	60.00	59.87	59.76		Corr.
+ 0.11	+ 0.13	+ 0.20	+ 0.31	+ 0.32	+ 0.35	+ 0.37	+ 0.30	+ 0.19	+ 0.04	- 0.09	- 0.20		D. f. m.

PRESSURE OF THE AIR. } STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1893. DECEMBER.

Day	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	69.9	69.7	69.4	69.2	69.1	68.9	68.8	68.7	68.5	68.4	68.3	68.4
2	68.6	68.8	68.6	68.5	68.4	68.4	68.4	68.1	67.9	67.8	67.7	67.6
3	65.2	65.1	64.8	64.7	64.6	64.4	64.3	64.2	64.0	63.7	63.5	63.2
4	62.0	62.1	62.1	62.0	62.2	62.5	62.9	63.0	62.9	62.9	62.9	62.9
5	60.0	59.8	59.6	59.1	58.9	58.8	58.6	57.6	57.4	56.0	56.7	56.5
6	55.6	55.5	55.2	55.0	55.0	55.0	55.0	54.9	54.7	54.5	54.3	54.1
7	53.1	53.4	53.8	54.3	54.6	54.9	55.9	55.7	55.9	56.5	56.8	57.4
8	64.3	64.8	65.3	65.9	66.3	66.7	66.8	67.3	67.5	67.9	68.2	68.5
9	70.7	70.6	70.6	70.3	70.5	70.7	70.8	71.1	71.0	71.0	70.9	70.7
10	69.1	68.9	68.5	67.9	67.8	67.4	67.0	67.0	66.8	66.6	66.4	66.1
11	69.3	69.6	69.8	70.0	70.0	70.2	70.3	70.3	70.3	70.2	70.1	69.9
12	67.9	67.6	67.1	66.8	66.7	66.6	66.4	66.2	66.2	66.2	66.1	65.9
13	66.7	66.8	66.9	67.0	67.3	67.7	68.4	68.8	69.2	69.5	70.0	70.1
14	76.6	77.0	77.3	78.0	78.1	78.2	78.8	79.1	79.2	79.6	80.0	80.1
15	80.9	81.0	80.9	80.8	80.9	81.2	81.2	81.3	81.2	80.9	86.6	80.7
16	79.2	79.2	79.0	79.1	79.0	78.8	78.2	77.5	77.4	77.5	77.6	77.3
17	78.4	78.6	78.7	78.8	78.9	79.1	79.4	79.6	79.6	79.6	78.7	79.6
18	80.1	80.2	80.2	80.3	80.8	81.0	81.2	81.5	81.6	81.9	81.7	81.6
19	82.1	82.0	82.0	81.8	82.1	82.1	82.1	82.1	82.0	82.0	81.8	81.9
20	82.7	82.8	82.9	82.9	83.0	83.0	83.2	83.3	83.5	83.6	83.6	83.6
21	84.4	84.7	84.6	84.7	84.6	84.6	84.6	84.7	84.6	84.4	84.2	84.2
22	83.2	83.0	82.9	82.5	82.4	82.3	82.2	82.1	81.7	81.5	81.2	81.1
23	77.5	77.3	77.2	77.2	77.1	77.1	77.2	77.2	76.9	76.7	76.6	76.6
24	77.5	77.6	77.6	77.9	78.0	78.1	78.4	78.6	78.6	78.6	78.8	79.1
25	82.5	82.1	81.7	81.4	81.6	81.7	82.0	82.1	82.3	82.2	83.1	83.3
26	83.8	83.6	83.5	83.4	83.3	83.3	83.2	83.2	83.1	83.2	83.4	83.4
27	83.8	83.5	83.3	82.9	82.7	82.5	82.2	82.0	82.0	81.8	81.4	80.9
28	76.3	76.3	76.2	76.0	75.8	75.7	75.8	75.8	75.8	75.8	75.8	75.8
29	76.0	76.0	76.1	76.1	76.0	76.1	76.1	76.1	76.2	76.2	76.1	75.9
30	73.5	73.3	73.0	72.7	72.4	72.2	72.0	71.8	71.7	71.4	71.1	70.7
31	68.9	68.6	68.4	67.8	67.5	67.3	67.0	66.7	66.5	66.3	66.0	66.1
Mean	73.22	73.21	73.13	73.06	73.08	73.11	73.17	73.15	73.10	73.04	73.02	73.00
Corr.	73.17	73.17	73.09	73.03	73.05	73.08	73.15	73.13	73.09	73.03	73.02	73.00
D. f. m.	+ 0.05	+ 0.05	- 0.03	- 0.09	- 0.07	- 0.04	+ 0.03	+ 0.01	- 0.03	- 0.09	- 0.10	- 0.12

1893. DECEMBER.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day
68.4	68.4	68.5	68.8	68.4	68.5	69.1	69.3	69.2	69.1	68.8	68.7	68.8	1
67.6	67.5	67.3	67.1	67.1	66.9	66.7	66.6	66.5	66.1	65.8	65.6	67.4	2
62.9	62.7	62.6	62.5	62.6	62.7	62.7	62.6	62.4	62.1	61.9	61.8	63.4	3
62.7	62.8	62.7	62.5	62.2	62.1	62.1	61.9	61.4	59.9	60.5	60.1	62.1	4
56.5	56.4	56.3	56.3	56.5	56.4	56.3	56.1	55.9	55.8	55.7	55.6	57.2	5
54.0	53.7	53.7	53.5	53.3	53.2	53.2	53.2	53.1	53.0	53.1	53.1	54.1	6
57.8	58.3	58.9	59.4	59.9	60.6	61.2	61.8	62.7	62.9	63.6	64.0	58.1	7
68.8	69.1	69.5	69.8	70.0	70.2	70.5	70.6	70.7	70.7	70.6	70.7	68.4	8
70.8	70.8	70.8	70.6	70.5	70.3	70.1	69.8	69.6	69.4	69.2	69.1	70.4	9
66.0	66.0	66.0	66.3	66.4	66.5	67.0	67.2	67.8	68.2	68.7	68.7	67.2	10
69.8	69.5	69.5	69.4	69.0	68.9	68.7	68.6	68.5	68.2	68.0	68.1	69.4	11
65.9	65.9	65.8	65.9	65.8	65.7	65.9	66.2	66.3	66.4	66.6	66.6	66.3	12
70.5	70.8	71.2	71.8	72.1	72.7	73.2	74.1	74.7	75.2	75.6	76.0	70.7	13
80.0	80.2	80.2	80.4	80.5	80.8	81.0	81.0	81.1	80.9	80.9	81.1	79.6	14
80.7	80.6	80.5	80.5	80.5	80.5	80.4	80.2	79.9	79.8	79.4	79.3	80.5	15
77.4	77.2	77.3	77.4	77.5	77.6	77.7	77.9	77.9	78.0	78.2	78.3	78.1	16
79.4	79.3	79.2	79.3	79.4	79.7	79.8	79.8	80.0	80.1	80.1	80.1	79.4	17
81.7	81.8	81.9	82.1	82.2	82.2	82.3	82.5	82.4	82.2	82.1	82.1	81.5	18
81.8	82.0	82.3	82.3	82.4	82.7	82.9	82.9	82.8	82.7	82.6	82.6	82.2	19
83.7	83.7	83.8	84.1	84.4	84.7	84.8	84.7	84.6	84.5	84.5	84.5	83.8	20
84.2	84.3	84.2	84.3	84.4	84.3	84.3	84.3	84.3	84.1	83.9	83.5	84.3	21
80.9	80.8	80.6	80.5	80.1	80.0	79.8	79.7	79.1	78.4	77.8	77.5	80.9	22
76.6	76.7	76.9	77.0	77.3	77.1	77.2	77.2	77.3	77.2	77.4	77.4	77.0	23
79.4	79.6	80.0	80.1	80.2	80.1	80.6	81.1	81.4	81.9	82.4	82.7	79.5	24
83.4	83.5	83.6	83.6	83.6	83.6	83.6	83.8	83.6	83.8	84.0	83.9	83.0	25
83.2	83.2	83.1	83.0	83.4	83.3	83.4	83.4	83.5	83.7	83.8	83.8	83.4	26
80.5	79.7	79.5	79.2	78.6	78.0	77.9	77.4	77.3	76.9	76.5	76.2	80.3	27
75.6	75.5	75.2	75.3	75.2	75.5	75.7	76.0	76.1	76.0	76.0	76.0	75.8	28
75.9	75.7	75.5	75.4	75.3	75.4	75.4	75.1	74.8	74.3	74.0	73.7	75.5	29
70.5	70.4	70.5	70.2	70.2	70.2	70.2	70.1	70.0	70.1	69.6	69.2	71.1	30
66.1	66.2	66.4	66.3	66.3	66.4	66.5	66.5	66.6	66.6	66.6	66.8	66.8	31
72.99	72.98	73.02	73.06	73.07	73.12	73.24	73.28	73.27	73.17	73.16	73.12	73.12	Mean
72.99	72.99	73.03	73.08	73.09	73.15	73.27	73.31	73.31	73.21	73.21	73.17		Corr.
- 0.13	- 0.13	- 0.09	- 0.04	- 0.03	+ 0.03	+ 0.15	+ 0.19	+ 0.19	+ 0.09	+ 0.09	+ 0.05		D. f. m.

PRESSURE OF THE AIR. } STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1894. JANUARY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	66.8	67.0	67.2	67.2	67.2	67.1	67.0	67.0	67.1	66.9	66.6	66.2
2	64.2	64.1	64.1	64.0	63.9	63.8	63.7	63.7	63.5	63.3	63.2	63.0
3	61.5	61.5	61.7	61.1	61.1	60.9	60.8	60.6	60.5	60.6	60.6	60.7
4	60.6	60.5	60.3	60.0	59.9	59.7	59.6	59.7	59.5	59.3	59.0	58.8
5	57.8	57.8	57.8	57.9	57.9	58.1	58.3	58.5	58.8	58.8	58.8	58.8
6	60.9	60.9	60.8	60.7	60.9	61.4	61.5	61.8	61.8	62.0	61.9	61.8
7	60.3	59.9	59.7	59.3	59.2	58.8	58.5	58.3	58.1	58.0	57.7	57.6
8	57.6	57.6	57.5	57.2	57.2	57.5	57.6	57.6	57.5	57.6	57.6	57.7
9	57.4	57.6	57.8	57.7	57.7	57.6	57.6	57.6	57.4	57.3	57.2	57.2
10	58.5	58.6	58.7	59.0	59.5	59.9	60.4	61.0	61.5	62.0	62.7	62.9
11	64.3	64.3	64.0	63.7	63.6	63.4	63.1	62.8	62.4	62.2	62.1	61.6
12	55.5	55.0	54.6	54.1	53.6	53.4	53.0	52.6	52.1	51.8	51.6	51.1
13	49.3	49.4	49.7	50.1	50.7	51.8	52.4	53.3	53.8	54.2	54.4	54.8
14	61.5	62.2	62.6	63.1	63.4	63.6	64.2	64.5	64.7	65.3	65.9	66.2
15	68.4	68.5	68.6	68.6	68.6	69.5	69.5	68.8	68.8	68.8	69.0	68.9
16	69.4	69.4	70.2	70.1	70.7	70.9	71.9	72.0	72.2	72.5	73.0	73.0
17	74.3	74.4	74.3	74.5	74.5	74.8	74.9	75.2	75.4	75.4	75.3	75.5
18	73.3	73.4	73.4	73.6	73.8	74.0	74.4	74.6	75.2	75.5	75.7	76.1
19	79.1	78.9	78.5	78.1	77.9	77.0	76.4	75.9	75.0	74.2	73.5	72.6
20	69.1	68.7	67.9	67.2	66.5	65.6	65.7	64.9	64.3	63.7	63.0	62.3
21	60.1	60.1	60.1	60.0	60.1	60.9	61.4	61.7	62.0	62.3	62.6	63.0
22	66.9	67.2	67.0	67.4	67.7	67.6	67.5	67.4	67.1	67.0	66.2	65.4
23	63.6	63.6	63.7	63.8	63.8	63.8	64.0	64.2	64.1	63.9	64.0	64.1
24	65.7	66.0	66.3	66.7	67.2	67.6	67.9	68.4	68.5	68.8	69.1	69.1
25	69.4	69.1	69.0	69.1	69.1	69.0	68.9	68.8	68.8	68.7	68.6	68.5
26	68.4	68.4	68.4	68.5	68.2	67.9	67.6	67.3	67.2	66.9	66.6	66.3
27	62.0	61.6	61.4	61.0	60.6	60.2	59.9	59.5	58.9	58.7	58.3	58.0
28	53.2	52.8	52.6	52.8	52.2	51.7	51.3	50.8	50.6	50.2	50.1	50.0
29	50.9	50.9	50.9	51.0	51.2	51.4	51.5	51.5	51.5	51.5	51.5	52.4
30	51.3	51.4	51.3	51.3	51.2	51.0	50.8	50.7	50.7	50.7	50.6	50.5
31	47.4	47.2	47.0	47.0	46.8	46.6	46.5	46.4	46.3	46.2	46.2	46.1
Mean	62.21	62.19	62.16	62.12	62.13	62.14	62.19	62.16	62.11	62.07	62.02	61.94
Corr.	61.91	61.92	61.91	61.90	61.94	61.98	62.05	62.06	62.03	62.02	61.99	61.94
D. f. m.	- 0.05	- 0.04	- 0.05	- 0.06	- 0.02	+ 0.02	+ 0.09	+ 0.10	+ 0.07	+ 0.06	+ 0.03	- 0.02



1894. JANUARY.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
66.1	66.0	66.0	65.7	65.8	65.5	65.4	65.2	65.1	64.8	64.7	64.5	66.2	1
62.8	62.7	62.8	62.7	62.6	62.4	62.4	62.4	62.3	62.0	61.8	61.6	63.1	2
60.5	60.5	60.6	60.6	60.7	60.8	60.7	60.8	60.7	60.7	60.7	60.5	60.8	3
58.7	58.8	58.7	58.4	58.3	58.3	58.3	58.4	58.4	58.2	58.0	57.7	59.1	4
59.1	59.2	59.4	59.6	59.9	60.0	60.3	60.7	60.7	60.7	60.8	60.9	59.2	5
61.7	61.6	61.5	61.4	61.3	61.4	61.5	61.5	61.3	61.0	60.9	60.5	61.3	6
57.6	57.1	57.0	57.1	57.1	57.2	57.4	57.6	57.6	57.7	57.8	57.8	58.1	7
57.6	57.5	57.4	57.4	57.4	57.7	57.7	57.8	57.8	57.7	57.4	57.2	57.5	8
57.2	57.0	56.9	57.2	57.5	57.4	57.5	57.9	58.2	58.1	58.2	58.4	57.5	9
63.1	63.3	63.6	63.9	64.0	64.2	64.4	64.6	64.8	64.7	64.5	64.3	62.2	10
61.4	60.9	60.4	59.8	59.4	58.9	58.7	58.3	58.0	57.0	56.6	56.2	61.0	11
50.8	50.3	49.9	49.7	49.1	48.9	48.8	49.0	49.0	49.1	49.2	49.3	51.3	12
55.5	56.2	56.9	57.6	58.2	58.4	58.9	59.5	59.9	60.3	60.6	60.9	55.2	13
66.3	66.3	66.3	66.8	67.1	67.4	67.7	67.9	68.2	68.2	68.3	68.5	65.7	14
68.9	68.8	68.8	68.7	68.7	68.8	68.8	68.9	68.8	69.1	69.1	69.2	68.8	15
73.1	73.3	73.5	73.6	73.8	73.9	74.4	74.7	74.7	74.6	74.4	74.3	72.6	16
75.2	74.7	74.5	74.2	74.0	73.8	73.7	73.8	73.6	73.5	73.4	73.2	74.4	17
76.5	76.6	77.1	77.4	77.6	78.1	78.6	79.1	79.2	79.5	79.5	79.3	76.3	18
72.1	70.9	70.5	70.0	69.8	69.5	69.1	69.4	69.3	69.4	69.3	69.3	73.1	19
61.7	61.1	60.9	60.5	60.4	60.1	60.1	60.1	60.3	60.3	60.2	60.3	63.1	20
63.1	63.7	64.4	64.9	65.1	65.8	66.4	66.6	66.8	66.8	66.8	68.9	63.5	21
65.2	64.8	64.6	64.3	64.2	64.2	64.2	64.3	64.0	64.0	63.9	63.6	65.6	22
63.9	64.1	64.5	64.5	64.6	64.8	65.1	65.4	65.5	65.6	65.6	65.7	64.4	23
69.2	69.2	69.2	69.6	69.8	69.8	69.8	70.1	70.0	69.7	69.5	69.4	68.6	24
68.3	68.2	68.2	68.3	68.5	68.7	68.8	68.7	68.6	68.5	68.4	68.2	68.7	25
66.1	66.0	65.8	65.5	65.1	65.0	64.7	64.3	63.9	63.4	63.1	62.7	66.1	26
57.4	57.2	57.0	56.8	56.1	55.9	55.3	55.0	54.7	54.5	53.6	53.2	57.8	27
50.0	50.0	49.8	50.1	50.0	50.1	50.3	50.3	50.4	50.6	50.7	51.0	50.9	28
52.3	52.3	52.3	52.1	52.1	52.2	52.2	52.2	52.1	52.0	51.6	51.4	51.0	29
50.1	50.0	49.9	50.0	49.7	49.5	49.2	48.9	48.7	48.3	48.0	47.6	50.1	30
46.3	46.2	46.3	46.4	46.4	46.6	46.7	46.8	46.7	46.7	46.7	46.5	46.6	31
61.86	61.76	61.76	61.77	61.75	61.78	61.84	61.94	61.91	61.83	61.72	61.68	61.96	Mean
61.89	61.81	61.84	61.87	61.89	61.94	62.03	62.16	62.16	62.10	62.02	62.01		Corr.
- 0.07	- 0.15	- 0.12	- 0.09	- 0.07	- 0.02	+ 0.07	+ 0.20	+ 0.20	+ 0.14	+ 0.06	+ 0.05		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1894. FEBRUARY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	46.3	46.3	46.3	46.4	46.5	46.5	46.6	46.5	46.4	46.4	46.4	46.4
2	47.1	47.3	47.4	47.3	46.8	46.8	47.2	47.4	47.8	48.2	48.6	49.0
3	54.7	54.8	55.0	55.4	55.7	56.0	56.3	56.6	56.7	56.9	57.3	57.3
4	56.9	56.9	56.7	56.6	56.3	56.1	56.0	55.8	55.6	55.2	54.9	54.8
5	53.8	53.7	53.8	53.9	54.3	54.7	55.0	55.5	55.9	56.1	56.2	56.2
6	57.2	57.2	57.3	57.4	57.6	57.7	57.9	57.9	58.2	58.4	58.7	59.0
7	64.6	64.9	64.9	65.2	65.7	66.9	67.3	67.8	68.0	68.3	68.3	68.4
8	66.8	66.1	65.4	64.8	63.9	63.7	63.5	62.8	62.4	62.0	61.3	61.2
9	59.0	59.0	58.9	58.8	58.7	58.9	59.1	58.9	58.9	58.8	58.6	58.6
10	60.3	60.5	60.6	60.5	60.9	61.5	62.2	62.8	63.4	63.7	64.0	64.3
11	69.6	70.2	70.7	71.1	71.3	71.7	71.9	72.3	72.6	73.2	73.2	73.6
12	77.0	77.0	77.2	77.2	77.3	77.4	77.5	77.5	77.4	77.3	77.2	77.5
13	75.7	75.3	74.9	74.4	74.3	74.2	73.8	73.0	72.5	72.4	72.1	71.7
14	68.1	67.8	67.0	66.8	66.7	66.8	66.9	66.8	66.7	66.5	66.5	66.8
15	68.7	68.7	68.4	68.2	68.1	67.8	67.4	66.8	66.6	66.1	65.7	64.9
16	61.7	61.8	61.8	61.9	61.9	62.0	62.0	62.2	62.2	62.3	62.5	62.8
17	61.6	61.2	60.8	60.6	60.1	59.8	59.3	58.9	58.6	57.9	57.6	57.3
18	55.5	55.4	55.3	55.2	55.2	55.2	55.0	54.9	54.8	54.4	54.3	53.7
19	50.1	49.8	49.5	49.2	49.2	49.1	48.9	48.8	48.6	48.4	48.1	48.3
20	44.7	44.3	43.9	43.2	42.7	42.3	41.9	41.6	41.1	40.7	40.2	39.7
21	33.7	33.1	32.8	32.6	32.4	32.2	31.7	31.1	30.7	30.5	30.0	29.9
22	28.3	28.5	28.5	28.2	28.2	28.2	28.2	28.3	28.5	28.8	29.3	29.9
23	38.8	39.2	40.0	41.1	41.9	42.9	43.9	44.7	45.4	46.1	47.0	47.9
24	56.3	56.5	56.5	56.8	57.4	57.9	58.4	58.8	59.0	59.1	59.2	59.3
25	61.5	61.5	61.4	61.4	61.3	61.2	61.1	60.4	60.2	60.1	59.9	59.5
26	58.2	58.0	57.4	56.6	56.3	55.8	54.9	53.8	53.1	52.2	51.5	50.3
27	37.3	36.5	35.7	35.0	34.7	34.6	34.6	34.8	35.0	35.6	36.1	36.5
28	40.7	40.8	41.1	41.4	41.7	42.2	42.7	43.2	43.5	43.8	44.1	44.5
Mean	55.51	55.44	55.33	55.26	55.25	55.36	55.40	55.35	55.35	55.34	55.31	55.33
Corr.	55.42	55.36	55.26	55.19	55.19	55.31	55.36	55.32	55.33	55.32	55.30	55.33
D. f. m.	0.00	- 0.06	- 0.16	- 0.23	- 0.23	- 0.11	- 0.06	- 0.10	- 0.09	- 0.10	- 0.12	- 0.09

1894. FEBRUARY.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day
46.5	46.7	46.9	47.0	47.1	47.2	47.2	47.2	47.3	47.3	47.3	47.2	46.7	1
49.2	49.8	50.2	50.4	51.0	51.4	52.2	52.6	53.2	53.8	54.0	54.2	49.7	2
57.2	57.3	57.5	57.6	57.6	57.5	57.4	57.5	57.4	57.3	57.2	56.8	56.7	3
54.7	54.3	54.2	54.2	54.2	54.0	54.0	53.8	53.8	53.9	53.7	53.7	55.0	4
56.5	56.8	57.1	57.7	57.5	57.4	56.8	57.3	57.3	57.2	57.2	57.1	56.1	5
59.3	59.5	60.0	60.3	61.0	61.2	61.5	62.5	62.8	63.2	63.7	64.1	59.7	6
68.4	68.6	68.6	68.6	68.8	68.9	69.3	69.4	68.9	68.3	68.0	67.4	68.0	7
61.0	60.3	59.9	59.6	59.4	59.4	59.3	59.4	59.3	59.2	59.1	59.1	61.6	8
58.6	58.5	58.6	58.6	58.7	58.6	58.7	59.2	59.5	59.6	59.8	60.1	58.9	9
64.9	65.3	65.7	66.2	66.9	67.4	67.7	68.2	68.4	68.7	68.9	69.4	64.7	10
73.9	74.3	74.7	75.1	75.6	75.8	76.1	76.2	76.6	76.8	77.1	77.1	73.8	11
77.6	77.5	77.6	77.6	77.6	77.5	77.3	77.0	76.8	76.7	76.3	75.9	77.2	12
71.2	70.8	70.4	70.1	69.8	69.7	69.6	69.3	69.1	69.0	69.0	68.7	71.7	13
66.9	67.0	67.2	67.8	68.0	68.3	68.5	68.7	68.7	68.7	68.6	69.6	67.6	14
64.3	63.9	63.7	63.3	63.1	62.8	62.5	62.2	61.8	61.7	61.6	61.5	65.0	15
62.7	62.6	62.7	63.0	63.1	63.0	63.0	62.8	62.5	62.4	62.0	61.7	62.3	16
57.1	56.7	56.5	56.7	56.4	56.5	56.6	56.5	56.2	56.0	55.7	55.6	57.9	17
53.5	53.2	52.8	52.4	52.1	52.0	51.8	51.5	51.5	51.2	50.8	50.5	53.4	18
48.1	47.8	47.7	47.6	47.4	47.4	47.3	47.1	46.7	46.2	45.7	45.1	48.0	19
39.6	38.7	38.4	38.2	38.0	37.5	37.1	36.6	35.8	35.2	34.6	33.9	39.6	20
29.6	29.2	29.2	29.3	29.1	29.1	28.9	28.6	28.3	28.2	28.2	28.2	30.3	21
30.3	31.0	31.8	32.3	32.9	33.5	34.0	35.2	35.7	36.3	37.0	37.7	31.3	22
48.5	49.1	50.1	51.1	52.1	53.0	53.8	54.3	55.1	55.3	55.8	56.0	48.0	23
59.6	59.7	59.8	60.2	60.5	60.5	60.6	60.2	61.3	61.3	61.4	61.5	59.2	24
59.3	59.3	59.4	59.0	59.0	59.1	59.0	58.7	58.8	58.7	58.5	58.5	59.8	25
49.4	49.4	46.8	45.4	44.3	43.5	42.4	41.2	40.6	39.6	39.0	38.3	49.1	26
37.0	37.2	37.9	38.5	38.7	39.2	39.7	40.0	40.1	40.3	40.4	40.7	37.3	27
44.7	45.0	45.1	45.1	45.1	45.1	44.8	44.2	43.8	42.7	42.0	40.9	43.3	28
55.34	55.34	55.37	55.46	55.54	55.59	55.61	55.62	55.62	55.53	55.45	55.37	55.42	Mean.
55.35	55.36	55.39	55.49	55.58	55.64	55.67	55.69	55.69	55.61	55.54	55.47		Corr.
- 0.07	- 0.06	- 0.03	+ 0.07	+ 0.16	+ 0.22	+ 0.25	+ 0.27	+ 0.27	+ 0.19	+ 0.12	+ 0.05		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1894. MARCH.

Day	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	40.2	39.3	38.7	38.2	37.8	37.9	38.0	37.8	37.7	37.6	37.6	37.3
2	30.1	29.6	29.1	28.9	28.6	28.2	27.9	27.7	27.6	27.2	27.1	26.8
3	27.8	27.8	28.4	28.5	29.1	30.0	31.0	31.4	31.9	32.3	33.1	33.6
4	35.0	34.9	35.0	34.9	34.8	34.7	34.6	34.4	34.1	34.0	33.9	33.6
5	32.6	32.4	32.0	31.9	31.6	31.6	31.5	31.2	31.0	30.9	30.9	30.8
6	34.0	34.3	35.0	35.5	35.7	35.9	36.2	36.6	36.5	36.4	36.6	37.0
7	41.0	41.0	41.0	40.9	41.2	41.3	41.3	41.4	41.3	41.2	41.2	41.1
8	40.5	40.5	40.3	40.2	40.0	39.9	40.0	39.9	39.6	39.6	39.5	39.4
9	46.4	47.1	47.5	47.8	48.2	48.5	48.8	49.1	49.1	49.1	49.1	49.2
10	52.7	52.7	52.6	52.4	52.3	52.3	52.2	51.8	51.5	51.3	51.3	51.3
11	51.3	51.4	51.5	52.0	52.3	52.4	52.8	53.0	53.4	53.9	54.3	54.9
12	62.5	62.9	63.5	63.8	64.3	64.8	65.1	65.7	66.0	66.3	66.7	67.3
13	68.6	68.6	68.5	68.7	68.8	68.8	68.8	68.9	69.0	69.1	69.2	69.2
14	64.7	63.8	63.1	61.7	60.7	60.1	59.6	58.9	58.1	57.4	57.1	56.8
15	56.4	56.5	56.7	56.8	57.1	57.6	58.0	58.3	58.4	58.4	58.5	58.8
16	58.5	57.9	57.2	57.0	56.5	55.8	55.6	54.8	54.2	53.5	52.9	51.7
17	42.4	42.1	41.9	41.8	41.7	41.7	41.7	41.9	42.1	42.4	42.8	43.3
18	46.4	46.5	46.6	46.7	46.9	47.0	47.0	46.9	46.9	47.0	47.0	47.0
19	49.0	48.9	48.8	48.8	49.2	49.4	49.6	49.8	49.8	49.9	50.0	50.1
20	54.0	54.0	54.0	54.0	54.0	53.7	53.4	53.0	52.8	52.5	51.9	51.6
21	51.4	51.7	51.7	51.9	51.9	52.0	52.1	52.1	52.4	52.5	52.5	52.6
22	50.9	50.6	50.3	50.2	49.7	49.2	48.7	48.0	47.1	47.0	46.6	46.1
23	38.8	38.5	38.5	38.6	37.9	37.1	36.4	35.8	35.7	36.6	37.7	38.3
24	43.6	43.5	43.4	43.3	43.3	43.3	43.2	43.2	43.2	43.2	43.3	43.3
25	42.9	42.7	42.5	42.5	42.7	42.9	42.9	42.9	43.1	43.4	43.8	44.1
26	48.6	48.6	48.5	48.5	48.6	48.6	48.5	48.4	48.1	47.9	48.0	47.9
27	45.4	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.8	46.2	46.5	47.0
28	52.9	52.6	52.6	52.8	52.8	52.9	53.5	53.7	53.8	54.0	54.1	54.3
29	52.6	52.3	52.0	51.4	51.0	50.8	50.6	49.6	49.2	48.8	48.3	47.5
30	35.2	34.6	34.4	34.3	34.3	34.4	34.6	34.8	35.3	35.7	36.0	36.2
31	36.4	36.5	36.4	37.1	38.1	39.2	39.8	41.0	41.9	43.2	43.9	44.9
Mean	46.22	46.11	46.04	46.02	46.02	46.05	46.09	46.05	46.02	46.03	46.17	46.22
Corr.	46.38	46.26	46.17	46.14	46.12	46.14	46.16	46.11	46.06	46.11	46.18	46.22
D. f. m.	+ 0.05	- 0.07	- 0.16	- 0.19	- 0.21	- 0.19	- 0.17	- 0.22	- 0.27	- 0.22	- 0.15	- 0.11

1894. MARCH.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

{ PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day
37.0	36.6	36.2	35.6	35.1	34.6	33.8	33.3	32.3	31.8	31.0	30.5	36.1	1
26.4	26.2	26.0	26.1	26.0	26.3	26.5	26.7	26.8	27.3	26.9	27.5	27.4	2
33.9	34.0	34.1	34.2	34.2	34.6	34.6	34.5	34.5	34.5	34.7	35.0	32.4	3
33.7	33.7	33.7	33.7	33.6	33.7	33.9	33.8	33.6	33.2	32.9	32.6	34.0	4
31.0	31.0	31.5	31.9	32.4	32.6	32.7	32.9	33.1	33.3	33.5	33.8	31.9	5
37.2	37.5	38.0	38.5	38.9	39.3	39.7	40.0	40.3	40.3	40.8	40.8	37.5	6
41.1	41.1	41.1	41.2	41.3	41.4	41.5	41.5	41.3	41.1	41.0	40.8	41.2	7
40.4	40.5	40.9	41.1	41.6	42.4	43.5	44.1	44.8	45.1	45.8	46.0	41.5	8
49.6	50.2	51.2	51.7	51.9	52.1	52.2	52.2	52.5	52.6	52.7	52.7	50.1	9
51.1	50.8	50.6	50.4	50.3	50.4	50.4	50.5	50.5	50.6	50.8	51.1	51.3	10
55.4	56.4	56.6	57.5	58.2	58.7	59.6	59.9	60.5	60.9	61.4	61.9	51.7	11
67.7	68.1	68.1	68.2	68.6	68.6	68.6	68.7	68.8	68.8	68.8	68.7	66.7	12
69.2	69.0	68.8	68.6	68.7	68.5	68.4	68.1	67.7	67.2	66.4	65.4	68.4	13
56.6	56.2	56.2	56.2	56.1	55.7	55.9	55.7	55.8	56.0	56.1	56.2	58.1	14
59.0	59.1	59.2	59.2	59.4	59.3	59.4	59.4	59.2	59.2	58.8	58.5	58.4	15
51.1	50.4	48.3	47.8	46.9	46.1	45.4	44.5	44.0	43.3	42.9	42.7	50.8	16
43.4	43.8	44.1	44.5	44.7	45.2	45.5	45.6	45.8	45.9	46.1	46.3	43.6	17
46.8	46.9	47.1	47.2	47.3	47.5	47.7	47.8	48.1	48.2	48.5	48.8	47.2	18
50.5	50.7	50.8	51.4	52.0	52.5	53.2	53.4	53.7	53.7	53.8	53.9	50.9	19
51.1	50.7	50.5	50.6	50.6	50.8	50.9	51.1	51.2	51.2	51.3	51.3	52.1	20
52.3	52.6	52.7	52.8	52.7	52.7	52.6	52.4	52.2	51.8	51.5	51.1	52.2	21
45.6	45.4	44.5	44.3	43.8	43.5	43.2	42.4	41.6	41.0	40.0	39.4	45.8	22
38.9	39.7	40.3	41.0	41.6	42.1	42.7	43.0	43.3	43.5	43.3	43.4	39.7	23
43.4	43.3	43.5	43.6	43.8	43.7	43.6	43.6	43.4	43.4	43.3	43.1	43.4	24
44.5	44.5	45.5	45.8	46.1	46.6	47.0	47.3	47.7	48.0	48.3	48.4	44.8	25
48.0	47.9	47.7	47.6	47.6	47.5	47.2	46.8	46.8	46.4	45.8	45.5	47.7	26
47.4	47.7	48.2	48.3	48.5	49.2	49.6	50.4	51.3	51.6	52.3	52.6	47.8	27
54.0	53.9	54.0	53.9	53.8	53.8	54.2	53.9	53.8	53.2	53.1	52.7	53.5	28
45.6	45.1	43.5	42.2	41.4	40.2	39.7	39.0	37.9	37.4	36.3	35.6	45.3	29
37.0	36.8	36.6	36.5	36.7	36.6	36.5	36.4	36.1	36.1	35.9	36.1	35.7	30
45.3	46.9	47.9	48.8	49.2	49.7	50.3	50.8	51.3	51.6	51.7	51.9	44.7	31
46.26	46.35	46.37	46.46	46.55	46.64	46.77	46.76	46.77	46.72	46.64	46.59	46.33	Mean
46.25	46.32	46.33	46.40	46.48	46.55	46.67	46.64	46.64	46.57	46.48	46.41		Corr.
- 0.08	- 0.01	0.00	+ 0.07	+ 0.15	+ 0.22	+ 0.34	+ 0.31	+ 0.31	+ 0.24	+ 0.15	+ 0.08		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1894. APRIL.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	52.0	51.8	51.6	51.4	50.9	50.7	50.5	49.8	49.2	48.3	46.3	45.6
2	31.0	31.1	31.2	31.3	31.2	31.3	31.5	31.6	31.9	32.3	32.6	33.1
3	47.3	48.2	49.1	50.0	51.2	52.2	53.3	54.0	54.3	54.9	55.5	55.9
4	64.0	64.1	64.1	64.0	64.0	64.0	64.0	63.9	63.8	63.7	63.6	63.3
5	58.9	58.3	57.7	56.8	56.0	55.6	54.8	53.8	53.0	52.5	51.7	51.0
6	49.0	49.0	49.0	49.1	49.4	49.4	49.5	49.9	50.0	50.2	50.4	50.4
7	53.3	53.7	53.6	54.0	54.4	54.9	55.6	56.1	56.5	57.1	57.6	58.0
8	60.2	60.2	60.3	60.4	60.3	60.2	60.1	60.0	60.1	60.1	60.1	60.0
9	60.2	60.6	60.7	60.9	60.8	60.9	60.8	60.8	60.8	60.8	61.1	61.4
10	63.0	63.1	63.3	63.3	63.3	63.4	63.5	63.3	63.4	63.3	63.3	63.2
11	62.3	62.1	61.8	61.8	61.9	62.1	62.2	62.2	62.3	62.3	62.5	62.6
12	64.9	65.1	65.2	65.2	65.3	65.4	65.5	65.7	65.7	65.8	66.0	66.1
13	67.0	67.0	66.9	66.9	66.9	67.0	67.1	67.1	67.0	67.0	67.1	67.1
14	67.0	66.8	66.8	66.8	66.8	66.8	66.7	66.5	66.4	66.2	66.1	66.1
15	65.3	65.4	65.3	65.3	65.4	65.5	65.6	65.4	65.4	65.4	65.6	65.7
16	65.0	64.9	64.7	64.1	63.7	63.0	62.6	62.1	61.7	60.9	61.4	60.9
17	58.9	59.0	59.1	59.2	59.4	59.5	59.5	59.6	59.6	59.7	59.9	60.0
18	61.9	61.8	61.8	61.6	61.4	61.3	61.1	61.0	60.7	60.8	60.8	60.7
19	62.0	62.0	62.1	62.2	62.3	62.3	62.4	62.3	62.3	62.5	63.0	63.2
20	66.2	66.4	66.6	66.7	66.7	66.9	66.9	66.8	67.2	67.4	67.6	68.1
21	69.1	68.9	68.6	68.4	68.5	68.7	68.7	68.7	68.6	68.5	68.6	68.8
22	70.6	70.7	70.7	70.8	70.7	70.8	70.8	70.8	70.9	70.9	71.0	70.8
23	69.4	69.2	68.9	68.6	68.5	68.4	68.3	67.9	67.6	67.4	67.3	67.2
24	65.0	64.8	64.6	64.5	64.4	64.4	64.5	64.5	64.5	64.5	64.6	64.6
25	66.2	66.2	66.2	66.3	66.5	66.7	67.0	67.0	67.2	67.3	67.4	67.5
26	69.7	69.8	69.7	69.8	69.9	70.1	70.2	70.2	70.1	70.2	70.2	70.3
27	70.5	70.5	70.3	70.5	70.3	70.1	69.7	69.1	68.8	68.3	68.0	67.9
28	67.8	67.8	67.8	67.7	68.0	68.3	68.6	68.9	69.3	69.5	69.8	70.0
29	71.8	71.9	72.0	72.3	72.5	72.8	73.1	73.2	73.4	73.6	74.0	74.3
30	74.4	74.4	74.4	74.3	74.3	74.3	74.2	73.9	73.7	73.5	73.2	73.1
Mean	62.46	62.49	62.47	62.47	62.50	62.63	62.61	62.54	62.51	62.50	62.54	62.56
Corr.	62.75	62.76	62.71	62.68	62.68	62.79	62.74	62.65	62.59	62.55	62.57	62.56
D. f. m.	+ 0.11	+ 0.12	+ 0.07	+ 0.04	+ 0.04	+ 0.15	+ 0.10	+ 0.01	- 0.05	- 0.09	- 0.07	- 0.08

1894. APRIL.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
43.9	41.7	40.7	38.9	38.6	36.2	35.3	33.3	32.1	31.5	31.3	31.2	43.0	1
33.9	34.7	35.3	37.1	38.6	40.2	41.7	42.8	43.5	44.8	45.4	46.4	36.0	2
56.6	57.6	58.1	59.1	59.8	60.4	60.9	61.8	62.5	62.8	63.6	63.8	56.4	3
62.8	62.6	62.2	61.8	61.5	61.5	61.4	61.1	60.8	60.3	59.9	59.4	62.6	4
50.4	49.6	49.1	48.5	48.4	48.2	48.1	48.4	48.5	48.4	48.5	48.8	51.9	5
50.4	50.4	50.5	50.8	51.0	51.3	51.5	52.2	52.7	52.8	52.9	53.3	50.6	6
58.1	58.2	58.4	58.7	58.7	58.9	59.6	59.9	60.0	60.1	60.2	60.1	57.3	7
60.0	60.1	60.9	60.9	61.2	61.1	61.2	61.3	61.3	61.0	60.6	60.2	60.5	8
61.5	61.5	61.5	61.6	61.7	61.9	62.1	62.7	62.8	62.8	62.7	62.8	61.5	9
63.0	62.8	62.7	62.6	62.5	63.5	62.5	62.6	62.7	62.5	62.5	62.4	63.0	10
62.8	63.0	63.2	63.3	63.5	63.7	64.0	64.2	64.2	64.3	64.5	64.7	63.0	11
66.2	66.2	66.2	66.2	66.5	66.7	66.9	67.1	67.0	67.0	67.2	67.1	66.1	12
67.1	67.0	67.0	67.1	67.3	67.2	67.2	67.1	67.0	67.0	67.1	67.1	67.0	13
66.0	65.7	65.6	65.4	65.5	65.5	65.6	65.7	65.5	65.5	65.4	65.3	66.1	14
65.6	65.8	65.9	65.8	65.8	65.8	65.9	65.9	65.6	65.5	65.5	65.4	65.6	15
60.5	60.2	59.9	59.6	59.4	59.3	59.1	59.1	59.0	59.0	59.0	58.9	61.2	16
60.1	60.3	60.6	60.9	61.1	61.3	61.4	61.6	61.7	61.8	61.8	61.8	60.3	17
60.8	60.8	60.8	60.9	60.9	61.0	61.1	61.5	61.5	61.6	61.8	61.9	61.2	18
63.5	63.5	63.5	63.9	64.0	64.4	64.9	65.2	65.3	65.5	65.7	66.1	63.5	19
68.4	68.4	68.4	68.9	69.1	69.2	69.3	69.4	69.3	69.4	69.3	69.3	68.0	20
69.0	69.1	69.2	69.5	69.6	69.9	70.1	70.3	70.2	70.3	70.5	70.4	69.3	21
70.7	70.2	70.1	70.0	70.1	70.2	70.2	70.5	70.2	70.0	69.9	69.5	70.5	22
66.9	66.6	66.4	66.3	66.2	66.1	66.2	66.0	65.9	65.6	65.3	64.9	67.1	23
64.6	64.7	64.9	65.0	65.0	65.2	65.4	65.5	65.7	65.7	65.9	66.0	64.9	24
67.6	67.7	67.7	67.9	68.0	68.2	68.4	68.6	68.8	68.9	69.0	69.3	67.6	25
70.5	70.5	70.5	70.6	70.1	70.2	70.2	70.2	70.3	70.3	70.5	70.5	70.2	26
67.8	67.7	67.6	67.4	67.1	67.2	67.2	67.0	67.0	67.2	67.6	67.7	68.4	27
70.1	70.2	70.5	70.5	70.7	71.0	71.3	71.3	71.4	71.4	71.5	71.8	69.8	28
74.2	74.4	74.3	74.6	74.7	74.6	74.5	74.5	74.5	74.4	74.3	74.4	73.7	29
72.8	72.5	72.2	72.1	72.0	71.8	71.8	71.8	71.6	71.5	71.3	71.2	72.9	30
62.50	62.46	62.46	62.53	62.62	62.72	62.83	62.95	62.95	62.96	63.02	63.06	62.64	Mean
62.47	62.41	62.38	62.42	62.49	62.56	62.65	62.74	62.71	62.69	62.73	62.74		Corr.
- 0.17	- 0.23	- 0.26	- 0.22	- 0.15	- 0.08	+ 0.01	+ 0.10	+ 0.07	+ 0.05	+ 0.09	+ 0.10		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1894. MAY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	71.3	71.5	71.5	71.5	71.5	71.6	71.7	71.4	71.5	71.4	71.3	71.2
2	71.8	71.9	72.0	72.1	72.3	72.5	72.7	72.8	72.9	73.2	73.7	73.7
3	74.1	74.1	74.2	74.4	74.3	74.2	74.3	74.3	74.2	74.2	74.2	74.1
4	74.7	74.9	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.3	75.3
5	76.3	76.2	76.2	76.1	76.3	76.5	76.7	77.0	77.0	77.1	77.3	77.3
6	78.4	78.5	78.5	78.3	78.2	78.1	77.9	77.8	77.7	77.6	77.4	77.2
7	71.4	70.3	68.6	67.4	66.0	65.5	65.0	63.8	63.4	62.4	61.9	61.1
8	56.9	57.0	57.2	57.4	57.6	58.0	58.4	59.0	59.6	60.1	60.9	61.4
9	64.1	64.2	64.3	64.3	64.3	64.5	64.5	64.5	64.6	64.7	64.8	65.1
10	65.3	65.5	65.3	65.3	65.3	65.3	65.3	65.2	65.2	65.2	65.1	65.1
11	65.5	65.5	65.4	65.3	65.4	65.6	65.7	65.7	65.7	65.6	65.6	65.5
12	64.8	64.5	64.3	64.3	64.2	64.1	64.0	63.8	63.8	63.7	63.5	63.5
13	65.3	65.3	65.3	65.4	65.3	65.4	65.4	65.4	65.6	65.9	66.2	66.4
14	66.9	66.6	66.2	65.8	65.8	65.7	65.6	65.2	64.9	64.7	64.8	64.7
15	62.5	62.4	62.3	62.2	61.9	61.7	61.5	61.2	61.1	61.0	60.8	60.8
16	60.4	60.6	60.7	60.7	60.8	60.8	60.8	61.0	61.2	61.4	61.5	61.7
17	66.8	67.1	67.3	67.8	67.8	68.1	68.3	68.3	68.4	68.7	68.9	69.0
18	68.9	68.1	67.8	67.0	66.6	66.1	65.7	65.2	64.6	64.4	64.2	63.6
19	64.1	64.4	64.5	64.6	64.8	64.8	64.8	64.8	64.9	65.0	65.0	64.9
20	64.8	64.8	64.8	64.8	64.9	64.9	65.0	64.9	64.7	64.7	64.7	64.7
21	65.9	66.1	66.1	66.3	66.5	66.8	67.0	67.2	67.4	67.6	67.6	67.8
22	67.9	67.7	67.6	67.5	67.5	67.5	67.4	67.3	67.2	66.8	66.6	66.5
23	65.0	65.0	64.9	64.9	64.9	64.9	64.9	64.8	64.8	64.8	64.8	64.8
24	64.7	64.8	64.9	65.0	65.1	65.2	65.3	65.2	65.3	65.4	65.6	65.8
25	65.9	66.0	65.9	66.0	65.7	65.6	65.6	65.5	65.5	65.5	65.5	65.5
26	66.7	66.4	66.1	65.8	65.8	65.7	65.7	65.5	65.3	65.3	65.2	64.8
27	64.3	64.3	64.3	64.3	64.3	64.3	64.4	64.4	64.4	64.5	64.6	64.6
28	63.8	63.5	63.2	63.1	63.0	62.9	62.8	62.6	62.6	62.4	62.2	62.1
29	59.4	59.2	59.0	58.8	58.4	58.3	58.1	57.9	57.6	57.2	56.9	56.5
30	55.3	55.3	54.8	54.5	54.4	54.3	54.1	54.1	54.0	53.7	53.5	53.4
31	53.6	53.6	53.6	53.7	53.9	54.0	54.1	54.2	54.3	54.6	54.9	55.2
Mean	66.03	65.98	65.87	65.81	65.75	65.75	65.75	65.66	65.64	65.62	65.63	65.59
Corr.	65.83	65.80	65.71	65.67	65.63	65.64	65.66	65.59	65.59	65.58	65.61	65.59
D. f. m.	+ 0.15	+ 0.12	+ 0.03	- 0.01	- 0.05	- 0.04	- 0.02	- 0.09	- 0.09	- 0.10	- 0.07	- 0.09



1894. MAY.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
71.0	70.9	70.9	70.9	70.9	71.0	71.2	71.4	71.7	71.7	71.7	71.7	71.3	1
73.7	73.8	73.9	74.0	74.0	74.0	74.1	74.1	74.2	74.1	74.0	74.0	73.3	2
73.8	74.1	74.3	74.2	74.5	74.3	74.3	74.4	74.2	74.3	74.3	74.3	74.2	3
75.4	75.5	75.8	75.8	75.9	76.0	75.8	76.0	76.3	76.4	76.2	76.3	75.6	4
77.3	77.3	77.4	77.4	77.6	77.8	78.0	78.1	78.1	78.1	78.2	78.3	77.2	5
76.7	76.5	76.3	75.9	75.6	75.1	74.9	74.4	73.9	73.0	72.4	71.6	76.3	6
60.6	60.2	59.8	59.4	59.0	58.6	58.2	57.4	57.3	57.2	57.1	56.9	62.0	7
61.7	62.1	62.6	62.9	63.1	63.6	64.0	64.2	64.2	64.6	64.4	64.3	61.0	8
65.1	65.2	65.3	65.3	65.3	65.4	65.4	65.3	65.4	65.3	65.3	65.3	64.9	9
65.3	65.4	65.5	66.0	65.8	65.8	65.7	65.5	65.4	65.4	65.4	65.4	65.4	10
65.3	65.3	65.4	65.4	65.4	65.4	65.4	65.2	65.0	65.0	65.0	64.9	65.4	11
63.4	63.5	63.6	63.7	63.8	64.0	64.2	64.5	64.9	65.2	65.2	65.2	64.1	12
66.3	66.5	66.4	66.2	66.2	66.5	66.7	66.7	66.9	67.0	67.1	67.2	66.1	13
64.6	64.3	64.3	64.4	64.5	64.3	64.1	63.8	63.6	63.3	63.0	62.4	64.7	14
60.8	60.8	60.8	60.8	60.9	60.9	60.9	60.8	60.7	60.6	60.5	60.4	61.2	15
62.1	62.4	63.0	63.5	64.1	64.2	64.6	64.9	65.3	65.6	66.0	66.3	62.6	16
68.9	69.0	69.1	69.4	69.4	69.6	69.8	69.8	69.7	69.6	69.5	69.4	68.7	17
63.3	62.9	62.7	62.7	62.8	63.0	63.1	63.3	63.4	63.3	63.6	63.8	64.6	18
64.8	64.8	65.0	65.0	65.0	65.1	65.3	65.6	65.4	65.2	65.0	64.8	64.9	19
64.5	64.4	64.3	64.5	64.7	65.0	65.0	65.1	65.3	65.5	65.7	65.8	64.9	20
68.0	68.0	68.1	68.1	68.2	68.2	68.3	68.4	68.4	68.2	68.0	67.9	67.5	21
65.9	65.6	65.5	65.4	65.6	65.4	65.5	65.5	65.4	65.2	65.1	65.1	66.3	22
64.8	64.6	64.5	64.4	64.2	64.2	64.0	64.3	64.5	64.6	64.4	64.5	64.6	23
65.9	65.9	65.9	66.0	66.0	66.1	66.2	66.2	66.1	66.3	66.0	66.0	65.6	24
65.7	65.5	65.6	65.7	65.8	66.0	66.1	66.4	66.5	66.7	66.8	66.8	65.9	25
64.4	64.1	64.0	63.9	63.9	63.9	63.8	63.7	63.8	64.1	64.2	64.3	64.8	26
64.5	64.4	64.4	64.4	64.3	64.3	64.3	64.3	64.2	64.1	64.0	63.9	64.3	27
61.9	61.7	61.5	61.4	61.4	60.9	60.7	60.6	60.1	59.9	59.7	59.5	61.8	28
56.4	56.2	56.3	56.3	56.3	56.1	55.9	55.8	55.7	55.5	55.8	55.3	57.0	29
53.3	53.3	53.4	53.3	53.3	53.4	53.6	53.4	53.3	53.3	53.4	53.5	53.8	30
55.4	55.7	55.8	56.1	56.4	56.5	56.6	56.9	57.2	57.5	57.8	58.0	55.4	31
65.51	65.48	65.53	65.56	65.61	65.63	65.67	65.68	65.68	65.67	65.64	65.58	65.68	Mean
65.53	65.52	65.58	65.63	65.70	65.74	65.79	65.82	65.84	65.85	65.84	65.79		Corr.
- 0.15	- 0.16	- 0.10	- 0.05	+ 0.02	+ 0.06	+ 0.11	+ 0.14	+ 0.16	+ 0.17	+ 0.16	+ 0.11		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1894. JUNE.

Day	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	58.2	58.3	58.2	58.3	58.5	58.7	59.0	59.3	59.4	59.7	60.0	60.4
2	63.4	63.4	63.0	62.9	63.2	63.3	63.3	63.4	63.4	63.4	63.4	63.4
3	62.0	62.0	62.1	62.1	61.6	61.4	61.0	60.4	60.3	60.1	60.0	59.9
4	59.5	59.3	59.0	58.8	58.9	58.5	58.5	58.4	58.3	58.2	58.2	58.4
5	59.1	59.3	59.6	59.7	59.9	60.1	60.4	60.6	60.7	61.0	61.3	61.5
6	64.8	64.7	64.6	64.8	64.8	65.0	65.1	65.3	65.5	65.6	65.8	65.9
7	66.3	66.3	66.4	66.4	66.4	66.4	66.4	66.3	66.3	66.3	66.2	66.2
8	65.3	65.3	65.3	65.2	65.1	65.0	64.8	64.6	64.5	64.3	64.2	64.1
9	62.7	62.3	61.7	61.4	61.3	61.3	61.1	60.9	60.6	60.4	60.1	60.1
10	57.2	56.8	56.4	56.1	55.3	55.2	55.2	54.8	54.8	54.7	54.8	54.9
11	58.8	58.6	58.4	57.4	56.9	56.9	56.7	56.3	56.4	56.5	56.6	57.2
12	61.2	61.4	61.7	62.0	62.1	62.4	62.6	62.9	62.9	62.7	63.0	62.9
13	59.6	59.5	59.5	59.5	59.5	59.6	59.8	60.0	60.5	60.8	61.3	61.5
14	62.1	62.2	62.3	62.3	62.3	62.2	62.2	62.3	62.1	62.1	62.2	62.2
15	61.6	61.5	61.4	61.3	61.1	60.9	60.6	60.3	60.1	59.9	59.8	59.4
16	57.5	57.3	57.1	57.2	57.1	57.1	57.1	56.9	56.9	56.8	56.8	56.8
17	57.0	57.2	57.3	57.3	57.3	57.4	57.6	57.6	57.8	57.8	57.9	57.9
18	60.0	60.0	59.9	59.9	59.9	59.9	59.9	59.8	59.8	59.8	59.7	59.7
19	59.6	59.3	58.9	58.7	58.6	58.5	58.5	58.4	58.2	58.2	58.2	58.3
20	58.9	59.0	59.1	59.0	58.9	58.6	58.4	58.2	58.0	57.7	57.7	57.6
21	57.4	57.7	57.9	57.9	58.1	58.2	58.2	58.1	57.8	57.7	57.4	56.9
22	50.6	50.3	50.0	49.8	49.5	49.5	49.2	48.9	48.7	48.6	48.2	48.0
23	49.2	49.1	48.9	48.6	48.6	48.6	48.6	48.6	48.6	48.5	48.5	48.7
24	52.4	52.7	53.0	53.5	53.8	54.3	54.6	54.9	55.3	55.7	55.9	56.3
25	57.9	58.1	58.2	58.4	58.4	58.5	58.7	58.6	58.6	58.5	58.6	58.6
26	57.7	57.6	57.6	57.5	57.4	57.4	57.3	57.3	57.3	57.4	57.5	57.6
27	58.9	58.9	59.0	59.1	59.1	59.0	58.8	58.7	58.3	58.0	57.8	57.5
28	52.6	52.2	51.9	51.5	51.1	50.9	50.4	50.1	49.7	49.5	49.0	48.6
29	46.7	46.7	46.8	47.1	47.4	47.6	48.2	48.7	49.2	49.5	50.2	50.3
30	52.2	52.0	51.9	51.7	51.6	51.4	51.3	51.3	51.0	50.7	50.3	50.0
Mean	58.35	58.30	58.24	58.18	58.12	58.13	58.12	58.06	58.03	58.00	58.02	58.03
Corr.	58.19	58.15	58.11	58.06	58.02	58.04	58.05	58.00	57.99	57.97	58.01	58.03
D. f. m.	+ 0.11	+ 0.07	+ 0.03	- 0.02	- 0.06	- 0.04	- 0.03	- 0.08	- 0.09	- 0.11	- 0.07	- 0.05

1894. JUNE.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day
60.7	60.9	60.9	61.4	62.0	62.3	62.6	62.8	63.0	63.2	63.5	63.4	60.6	1
63.1	62.9	62.8	62.8	62.8	62.7	62.6	62.6	62.6	62.3	62.1	62.1	63.0	2
59.7	59.4	59.2	59.0	59.0	59.0	59.1	58.9	59.2	59.3	59.5	59.7	60.2	3
58.3	58.3	58.2	58.2	58.3	58.6	58.8	59.0	59.0	59.0	59.0	58.9	58.6	4
61.8	62.0	62.3	62.6	62.9	63.3	63.4	63.7	64.0	64.3	64.5	64.6	61.8	5
65.9	65.8	65.7	65.8	65.9	66.1	66.2	66.2	66.2	66.2	66.3	66.3	65.6	6
66.2	66.1	66.0	66.0	66.1	66.1	66.0	66.0	66.0	65.9	65.6	65.5	66.1	7
63.8	63.9	63.9	64.0	63.9	63.8	63.6	63.6	63.3	63.2	63.2	62.8	64.2	8
59.9	59.7	59.5	59.6	59.6	59.3	59.1	58.8	58.5	58.0	57.8	57.4	60.0	9
55.0	55.5	55.8	56.2	56.7	56.4	57.6	58.2	58.5	58.6	58.6	58.9	56.3	10
57.5	57.6	57.7	58.2	58.2	58.5	58.7	58.9	59.3	59.7	60.1	60.5	58.0	11
62.9	62.4	62.3	61.9	61.9	61.7	61.2	60.9	60.2	59.9	59.8	59.6	61.8	12
61.8	61.8	61.9	62.2	62.2	62.3	62.5	62.4	62.3	62.1	62.0	62.0	61.1	13
62.1	62.0	62.0	62.0	62.1	62.3	62.3	62.2	62.1	61.9	61.6	61.6	62.1	14
59.2	59.2	59.1	59.0	59.0	58.8	58.3	58.2	57.9	57.8	57.7	57.7	59.6	15
56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.9	57.0	56.9	16
57.9	58.1	58.3	58.6	58.9	59.1	59.4	59.4	59.6	59.7	59.8	60.0	58.3	17
59.7	59.7	59.7	59.8	59.8	59.9	59.9	59.8	59.8	59.8	59.9	59.9	59.8	18
58.4	58.3	58.3	58.4	58.6	58.8	58.8	58.9	59.0	58.9	58.8	58.7	58.6	19
57.4	57.3	57.1	57.1	57.1	57.2	57.2	57.2	57.3	57.3	57.3	57.3	57.8	20
56.4	56.0	55.5	54.8	54.1	53.5	52.8	52.0	51.5	51.4	50.9	50.6	55.5	21
47.9	48.0	48.1	48.2	48.5	48.7	48.9	49.0	49.0	49.3	49.3	49.4	49.0	22
48.8	49.0	49.3	49.6	49.9	50.2	50.5	50.8	51.2	51.5	51.8	52.0	49.5	23
56.5	56.7	57.0	57.1	57.4	57.5	57.6	57.8	57.9	58.0	57.9	57.8	55.9	24
58.6	58.5	58.6	58.6	58.5	58.4	58.2	58.2	58.2	58.1	58.0	57.7	58.4	25
57.7	57.8	58.0	58.3	58.4	58.6	58.8	58.9	58.9	58.9	58.9	58.8	58.0	26
57.1	56.9	56.6	56.2	56.0	55.8	55.5	55.1	54.8	54.4	53.8	53.4	57.0	27
48.1	47.9	47.5	47.1	46.8	46.8	46.5	46.5	46.5	46.4	46.4	46.5	48.8	28
50.6	50.7	51.1	51.3	51.2	51.3	51.4	51.8	51.8	52.0	52.3	52.3	49.8	29
49.4	49.2	49.0	48.7	48.3	48.3	48.0	47.8	47.6	47.3	47.3	47.3	49.7	30
57.97	57.95	57.94	57.98	58.03	58.07	58.08	58.08	58.07	58.04	58.02	57.99	58.08	Mean
57.98	57.98	57.98	58.04	58.10	58.16	58.18	58.20	58.20	58.19	58.18	58.17		Corr.
- 0.10	- 0.10	- 0.10	- 0.04	+ 0.02	+ 0.08	+ 0.10	+ 0.12	+ 0.12	+ 0.11	+ 0.10	+ 0.09		D. f. m.

PRESSURE OF THE AIR. } STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1894. JULY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	47.3	47.4	47.6	47.6	47.7	47.9	48.2	48.6	48.6	48.7	49.0	49.2
2	56.9	57.1	57.3	57.5	57.8	57.9	58.1	58.4	58.4	58.5	58.4	58.4
3	53.6	52.6	51.5	50.2	49.5	48.9	47.8	47.3	46.8	46.3	46.1	46.1
4	51.5	52.0	52.6	53.2	53.8	54.2	54.7	55.0	55.3	55.4	55.6	55.8
5	56.6	56.4	56.1	56.0	56.0	55.9	55.9	56.0	56.1	55.8	55.7	55.6
6	54.8	54.9	54.9	55.1	54.9	54.7	54.5	54.1	54.0	53.7	53.6	53.5
7	52.7	52.8	52.7	52.6	52.5	52.4	52.2	52.3	52.4	52.6	52.8	53.1
8	56.7	57.0	57.3	57.5	57.5	57.7	57.7	57.8	58.1	58.3	58.5	58.8
9	60.8	60.9	61.0	61.0	61.1	61.2	61.2	61.3	61.3	61.4	61.5	62.0
10	62.3	62.2	62.0	61.9	61.8	61.8	61.7	61.8	61.7	61.6	61.6	61.6
11	62.7	62.8	62.9	63.1	63.1	63.0	62.9	63.0	62.9	62.7	62.8	62.8
12	61.7	61.7	61.4	61.3	61.3	61.1	61.0	60.7	60.8	60.7	60.5	60.3
13	58.3	58.2	58.2	58.0	57.6	57.0	56.4	55.6	55.4	55.1	55.0	55.1
14	53.5	53.6	53.8	53.8	54.0	54.2	54.5	54.7	54.9	54.7	54.6	54.6
15	52.7	52.5	52.5	52.5	52.3	52.1	52.0	51.8	51.7	51.4	51.2	51.3
16	50.0	50.2	50.6	51.0	51.6	52.1	52.8	53.2	53.8	54.2	54.9	55.2
17	59.7	59.8	59.9	60.0	60.2	60.5	60.9	60.9	61.3	61.6	61.9	62.0
18	64.0	64.0	64.0	64.2	64.2	64.2	63.9	63.7	63.5	63.5	63.5	63.5
19	59.9	59.6	59.2	58.8	58.6	58.4	57.9	57.4	57.1	56.6	56.1	55.8
20	54.0	54.1	54.3	54.3	54.7	54.8	54.9	54.7	54.8	55.0	55.2	55.3
21	54.8	54.6	54.5	54.4	54.4	54.6	54.6	54.8	54.9	55.0	55.1	55.1
22	55.9	56.0	56.0	56.0	56.1	56.1	56.1	56.1	56.1	56.2	56.3	56.3
23	59.3	59.4	59.7	59.9	60.1	60.2	60.3	60.4	60.3	60.3	60.2	60.5
24	59.0	58.9	58.7	58.4	58.2	58.0	57.6	57.3	57.2	56.7	56.5	56.4
25	53.8	53.6	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5	53.5
26	53.3	53.2	53.2	53.2	53.2	53.1	53.0	52.9	52.8	52.8	52.8	52.6
27	52.8	52.9	53.0	53.0	53.2	53.3	53.5	54.0	54.1	54.2	54.4	54.5
28	56.7	56.6	56.4	56.0	56.5	56.7	56.8	56.8	56.8	56.8	56.9	57.1
29	57.5	57.4	57.3	57.2	57.2	57.1	57.1	56.9	56.7	56.5	56.5	56.4
30	55.1	54.9	54.6	54.4	54.4	54.4	54.3	54.3	54.3	54.3	54.4	54.4
31	56.0	56.1	56.2	56.3	56.4	56.3	56.3	56.3	56.3	56.4	56.5	56.6
Mean	56.25	56.24	56.22	56.19	56.24	56.24	56.20	56.18	56.19	56.15	56.18	56.24
Corr.	56.42	56.39	56.35	56.31	56.35	56.33	56.28	56.24	56.24	56.18	56.20	56.24
D. f. m.	+ 0.05	+ 0.02	- 0.02	- 0.06	- 0.02	- 0.04	- 0.09	- 0.13	- 0.13	- 0.19	- 0.17	- 0.13

1894. JULY.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
49.9	50.5	51.2	52.1	52.5	53.2	53.9	54.6	55.1	55.5	56.3	56.5	50.8	1
58.6	58.6	58.6	58.6	58.3	58.1	57.7	57.2	56.6	56.1	55.4	54.7	57.6	2
45.9	46.0	46.3	46.5	47.2	47.9	48.5	49.1	49.8	50.0	50.4	50.7	48.5	3
55.9	56.3	56.6	56.7	56.8	57.1	57.3	57.3	57.2	57.1	56.9	56.7	55.5	4
55.1	55.3	55.5	55.2	55.3	55.1	55.0	54.9	54.6	54.7	54.8	54.8	55.5	5
53.5	53.5	53.6	53.5	53.4	53.4	53.4	53.3	53.1	53.0	52.8	52.7	53.8	6
53.2	53.4	53.5	53.7	54.0	54.4	54.7	54.9	55.4	55.6	55.8	56.4	53.6	7
58.8	59.1	59.3	59.5	59.7	59.9	60.1	60.2	60.3	60.5	60.7	60.8	58.8	8
62.0	62.1	62.1	62.2	62.2	62.1	62.1	62.1	62.3	62.4	62.2	62.3	61.7	9
61.8	61.7	61.9	62.1	62.1	62.2	62.2	62.3	62.3	62.4	62.5	62.6	62.0	10
62.8	62.5	62.3	62.4	62.3	62.3	62.3	62.2	62.1	62.0	61.9	61.7	62.6	11
60.3	60.1	59.9	59.9	59.9	59.8	59.5	59.4	59.3	59.1	58.9	58.4	60.3	12
55.1	55.0	54.8	54.5	54.4	54.3	54.1	53.6	53.8	53.5	53.3	53.3	55.4	13
54.7	54.5	54.2	54.3	54.3	54.3	54.3	54.1	53.9	53.7	53.0	52.9	54.1	14
51.2	51.1	51.0	51.1	51.1	51.0	50.8	50.6	50.4	50.1	49.9	49.8	51.3	15
55.7	56.1	56.7	57.1	57.6	57.8	58.4	58.5	58.8	59.0	59.3	59.8	55.2	16
62.3	62.7	63.0	63.2	63.5	63.6	63.7	63.8	63.9	63.9	63.9	63.9	62.1	17
63.3	63.0	62.8	62.6	62.4	62.1	61.8	61.8	61.4	60.9	61.0	60.5	62.9	18
55.1	55.1	54.7	54.4	54.4	54.3	54.2	54.0	53.8	53.8	54.0	53.7	56.1	19
54.7	54.5	54.7	55.0	55.0	55.1	54.6	55.1	54.9	55.0	55.0	55.0	54.8	20
55.1	55.0	55.1	55.2	55.4	55.4	55.5	55.6	55.7	55.7	55.9	55.9	55.1	21
55.7	55.7	55.9	56.8	57.2	57.4	57.6	57.9	58.4	58.6	59.0	59.2	56.8	22
60.5	60.4	60.4	60.3	60.4	60.3	60.3	60.2	59.9	59.6	59.6	59.3	60.1	23
56.3	55.8	55.5	55.3	55.3	55.2	55.0	54.9	54.7	54.5	54.3	54.1	56.4	24
53.5	53.4	53.5	53.5	53.5	53.6	53.6	53.6	53.5	53.5	53.5	53.4	53.5	25
52.5	52.5	52.5	52.6	52.7	52.7	52.6	52.5	52.5	52.6	52.6	52.7	52.8	26
54.7	54.9	55.3	55.5	55.8	56.0	56.2	56.4	56.2	56.5	56.5	56.6	54.7	27
57.2	57.2	57.3	57.3	57.4	57.7	57.8	57.8	57.2	57.5	57.5	57.5	57.0	28
56.3	56.2	56.2	56.1	56.0	55.9	55.7	55.6	55.6	55.5	55.4	55.3	56.4	29
54.5	54.6	54.8	55.1	55.2	55.5	55.8	55.8	55.6	55.6	55.7	55.7	54.9	30
56.7	56.6	56.8	57.1	57.4	57.7	57.9	58.5	58.5	58.6	58.7	58.6	57.0	31
56.22	56.24	56.32	56.43	56.54	56.62	56.66	56.70	56.67	56.66	56.67	56.63	56.37	Mean
56.20	56.21	56.27	56.37	56.46	56.53	56.55	56.58	56.54	56.51	56.50	56.45		Corr.
- 0.17	- 0.16	- 0.10	0.00	+ 0.09	+ 0.16	+ 0.18	+ 0.21	+ 0.17	+ 0.14	+ 0.13	+ 0.08		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1894. AUGUST.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	58.7	59.0	59.2	59.4	59.8	59.9	60.2	60.4	60.6	60.5	60.5	60.7
2	61.3	61.3	61.4	61.5	61.6	61.6	61.6	61.6	61.7	61.8	61.7	61.8
3	62.6	62.0	62.8	62.9	62.9	62.8	62.8	62.7	62.7	62.6	62.6	62.6
4	62.5	62.5	62.5	62.4	62.5	62.6	62.9	63.1	63.1	63.1	63.4	63.5
5	64.6	64.6	64.6	64.5	64.6	64.8	64.9	64.9	64.9	64.9	64.9	64.8
6	64.9	64.8	64.8	64.6	64.7	64.8	64.8	64.8	64.8	64.7	64.7	64.8
7	64.3	64.3	64.4	64.3	64.3	64.1	64.0	64.1	63.8	63.6	63.4	63.5
8	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.8	63.9	64.0	64.2	64.3
9	65.4	65.4	65.3	65.4	65.3	65.2	65.0	64.9	64.9	64.8	64.7	64.6
10	65.3	65.3	65.3	65.4	65.7	66.0	66.3	66.4	66.6	66.7	66.8	66.9
11	67.9	67.9	67.8	67.8	68.0	67.9	67.8	67.7	67.7	67.4	67.2	67.2
12	66.6	66.6	66.5	66.4	66.3	66.3	66.4	66.3	66.3	66.2	66.0	65.9
13	64.6	64.5	64.4	64.4	64.2	64.1	64.0	64.0	63.7	63.6	63.4	63.8
14	64.3	64.3	64.3	64.3	64.4	64.5	64.6	64.6	64.7	64.8	64.8	64.8
15	66.3	66.4	66.5	66.6	66.5	66.5	66.5	66.6	66.5	66.3	66.1	65.9
16	62.7	62.7	62.5	62.1	62.0	61.8	61.6	61.4	61.1	60.9	60.6	60.4
17	60.2	60.6	61.0	61.5	61.4	61.5	61.3	61.3	61.5	61.6	61.8	61.9
18	62.0	62.1	62.1	62.3	62.2	61.9	61.8	61.9	62.0	62.2	62.3	62.5
19	62.6	62.6	62.6	62.6	62.6	62.7	62.8	62.8	63.0	63.2	63.4	63.5
20	63.0	62.8	62.7	62.3	61.9	61.5	61.1	60.8	60.2	60.0	59.7	59.6
21	57.4	57.2	57.0	56.8	56.7	56.6	56.4	56.3	56.0	55.9	55.8	55.7
22	53.1	52.9	52.6	52.3	52.2	52.2	52.2	52.1	52.1	52.0	52.0	52.2
23	53.2	53.3	53.5	53.5	53.5	53.5	53.3	53.5	53.7	53.8	54.0	54.4
24	58.6	58.9	59.0	59.0	59.1	59.6	59.8	60.1	60.0	60.3	60.5	60.6
25	60.2	60.0	59.7	59.4	59.4	59.5	59.0	59.1	58.7	58.6	58.3	58.3
26	58.0	57.9	57.8	57.9	57.6	57.8	57.8	58.2	58.2	58.3	58.5	58.5
27	59.2	59.2	59.1	59.0	58.8	58.8	58.8	58.6	58.4	58.3	58.2	58.2
28	56.9	56.7	56.5	56.4	56.2	56.2	56.2	56.1	56.0	56.2	56.3	56.2
29	55.4	55.0	54.8	54.5	54.3	54.2	54.1	54.1	54.1	54.2	54.3	54.3
30	54.5	54.5	54.6	54.6	54.8	54.9	55.0	55.0	55.0	55.2	55.3	55.4
31	56.8	56.5	56.3	56.1	56.0	56.0	56.0	56.2	56.1	55.9	55.9	55.9
Mean	61.18	61.14	61.14	61.09	61.07	61.08	61.05	61.08	61.03	61.02	61.01	61.05
Corr.	61.16	61.12	61.12	61.07	61.06	61.07	61.04	61.07	61.02	61.00	61.01	61.05
D. f. m.	0.00	- 0.04	- 0.04	- 0.09	- 0.10	- 0.09	- 0.12	- 0.09	- 0.14	- 0.16	- 0.15	- 0.11

1894. AUGUST.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean.	Day.
60.7	60.8	61.0	61.0	61.1	61.2	61.3	61.3	61.1	61.1	61.2	61.3	60.5	1
61.8	61.7	61.6	61.8	61.9	62.2	62.2	62.2	62.2	62.2	62.2	62.5	61.8	2
62.7	62.7	62.8	62.9	62.9	63.0	63.1	62.9	62.8	62.9	62.7	62.7	62.8	3
63.6	63.6	63.7	63.9	64.0	64.2	64.4	64.5	64.5	64.3	64.6	64.7	63.5	4
64.7	64.5	64.6	64.6	64.7	64.8	64.8	64.8	64.9	64.9	64.8	64.9	64.7	5
64.9	64.9	64.9	65.0	64.9	64.9	65.0	64.8	64.7	64.5	64.4	64.4	64.8	6
63.4	63.4	63.4	63.3	63.4	63.5	63.5	63.5	63.4	63.4	63.4	63.5	63.7	7
64.5	64.5	64.5	64.6	64.8	65.1	65.3	65.4	65.4	65.2	65.2	65.3	64.4	8
64.5	64.7	64.8	64.8	65.0	65.1	65.3	65.4	65.3	65.2	65.1	65.2	65.1	9
67.1	67.2	67.3	67.4	67.6	67.7	67.9	68.0	68.0	67.9	67.9	67.9	66.8	10
67.2	67.0	66.7	66.6	66.5	66.6	66.9	66.9	66.8	66.8	66.7	66.7	67.2	11
65.8	65.8	65.8	65.7	65.7	65.8	65.7	65.4	65.3	65.0	64.8	64.7	65.9	12
63.7	63.6	63.6	63.6	63.6	63.7	63.7	63.7	63.7	63.9	64.1	64.2	63.9	13
64.8	64.9	65.1	65.2	65.2	65.4	65.6	65.9	66.0	66.1	66.2	66.2	65.1	14
65.8	65.6	65.5	65.5	65.3	65.1	64.8	64.6	64.2	63.8	63.6	63.3	65.6	15
60.3	60.3	60.2	60.0	60.0	60.0	59.9	59.9	59.8	59.8	59.8	59.8	60.8	16
61.9	62.0	62.1	62.2	62.2	62.1	62.0	61.9	61.7	61.8	61.8	61.7	61.6	17
62.6	62.8	63.0	63.1	63.3	63.2	63.2	61.1	63.0	63.0	62.8	62.7	62.5	18
63.6	63.7	63.7	63.8	64.1	64.1	64.1	64.0	63.9	63.7	63.5	63.2	63.3	19
59.5	59.2	58.9	58.7	58.5	58.5	58.6	58.3	58.0	57.9	57.8	57.6	59.9	20
55.5	55.5	55.5	55.5	55.5	55.2	54.8	54.7	54.4	54.0	53.6	53.4	55.6	21
52.3	52.3	52.6	52.7	52.8	52.9	53.0	53.1	53.1	53.1	53.1	53.1	52.6	22
54.9	55.2	55.7	56.0	56.5	56.6	56.9	57.2	57.4	57.6	58.2	58.3	55.2	23
60.8	60.8	60.8	60.8	61.0	61.3	61.4	61.3	61.1	60.9	60.8	60.5	60.3	24
58.1	58.0	57.9	58.1	58.2	58.2	58.2	58.2	58.1	58.1	58.0	58.1	58.6	25
58.5	58.6	58.8	58.9	59.0	59.2	59.3	59.4	59.4	59.4	59.3	59.3	58.6	26
58.3	58.2	58.1	58.4	58.4	58.3	58.3	58.2	57.9	57.6	57.5	57.2	58.4	27
56.3	56.3	56.2	56.2	56.3	55.3	56.4	56.9	56.2	56.0	55.8	55.7	56.3	28
54.3	54.2	54.1	54.1	54.3	54.2	54.2	54.3	54.2	54.3	54.4	54.5	54.3	29
55.5	56.6	55.9	56.2	56.3	56.5	56.6	56.8	56.8	57.0	57.1	57.0	55.7	30
56.0	56.1	56.3	56.6	56.8	57.0	57.0	57.2	57.2	57.3	57.3	57.2	56.5	31
61.08	61.09	61.13	61.20	61.28	61.35	61.40	61.35	61.31	61.25	61.22	61.19	61.16	Mean
61.08	61.09	61.14	61.21	61.29	61.36	61.41	61.37	61.33	61.27	61.24	61.21		Corr.
- 0.08	- 0.07	- 0.02	+ 0.05	+ 0.13	+ 0.20	+ 0.25	+ 0.21	+ 0.17	+ 0.11	+ 0.08	+ 0.05		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1894. SEPTEMBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	57.2	57.2	57.1	57.1	57.2	57.4	57.5	57.7	57.8	58.0	58.0	58.2
2	59.0	59.0	59.1	59.2	59.5	59.5	59.3	59.3	59.0	58.9	58.9	58.8
3	56.8	56.6	56.5	56.4	56.2	56.2	56.1	55.9	55.5	55.2	55.2	54.9
4	53.5	53.5	53.6	54.0	54.2	54.5	54.9	55.2	55.3	55.4	55.5	55.5
5	56.0	55.9	55.8	55.6	55.5	55.3	55.0	54.9	54.6	54.3	54.2	54.1
6	52.3	52.3	52.4	52.5	52.7	52.7	52.8	52.8	52.8	52.7	52.7	52.7
7	52.1	51.8	51.4	51.3	51.0	50.5	49.9	49.3	48.4	48.4	48.1	47.5
8	45.3	45.2	45.1	45.1	45.2	45.2	45.3	45.4	45.4	45.4	45.5	45.6
9	46.6	46.8	46.8	46.7	46.8	46.9	47.0	47.1	47.1	47.2	47.1	47.3
10	49.9	49.9	49.8	49.9	50.0	51.1	50.3	50.4	50.5	50.6	50.9	50.9
11	51.2	51.0	50.8	50.7	50.7	50.7	50.8	50.9	51.0	51.1	51.1	51.1
12	52.1	52.1	52.0	52.1	52.2	52.3	52.3	52.2	52.3	52.3	52.2	52.1
13	53.8	53.9	54.1	54.2	54.4	54.6	54.9	54.9	54.9	54.9	55.0	55.0
14	56.6	56.7	56.8	56.9	56.9	56.9	56.8	56.6	56.5	56.5	56.5	56.4
15	54.6	54.3	54.0	53.9	53.9	53.9	54.1	53.9	53.4	53.1	52.6	52.1
16	56.1	56.0	56.1	55.9	55.8	55.4	54.9	54.3	53.9	53.0	52.4	51.5
17	47.2	47.3	48.0	48.7	49.3	50.1	50.7	50.8	50.8	50.7	50.5	50.2
18	47.7	47.7	47.7	47.7	47.7	47.7	47.6	47.7	47.6	47.4	47.4	47.6
19	53.4	53.7	54.3	54.8	55.4	56.0	56.8	57.8	58.6	58.7	58.9	59.5
20	65.6	66.1	66.4	66.8	67.0	67.2	67.5	67.7	67.8	68.0	68.1	68.3
21	67.6	67.6	67.6	67.3	67.1	67.1	67.2	66.8	66.7	66.4	66.4	66.3
22	64.9	64.7	64.2	64.0	64.0	64.0	64.1	64.1	63.9	63.8	63.6	63.5
23	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.1	65.2	65.2	65.3	65.3
24	66.4	66.2	66.1	66.1	66.1	66.1	66.0	66.2	66.2	66.2	66.4	66.4
25	68.0	68.2	68.2	68.4	68.5	68.6	68.7	68.6	68.6	68.7	68.7	68.7
26	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.6	70.5	70.4	70.2	70.2
27	68.7	68.6	68.5	68.3	68.1	68.0	67.8	67.6	67.5	67.3	67.1	67.0
28	67.0	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.2	67.2
29	67.2	67.1	67.0	66.9	66.9	67.0	67.0	67.0	66.9	66.8	66.3	65.9
30	64.0	63.8	63.8	63.8	63.9	63.9	64.0	63.9	64.0	64.1	64.1	64.1
Mean	57.86	57.85	57.86	57.90	57.96	58.05	58.07	58.06	57.99	57.93	57.87	57.80
Corr.	57.98	57.96	57.96	57.99	58.04	58.12	58.13	58.11	58.02	57.95	57.88	58.80
D. f. m.	+ 0.01	- 0.01	- 0.01	+ 0.02	+ 0.07	+ 0.15	+ 0.16	+ 0.14	+ 0.05	- 0.02	- 0.09	- 0.17



1894. SEPTEMBER.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
58.3	58.3	58.3	58.6	58.7	58.9	59.1	59.2	59.1	59.1	59.1	59.0	58.2	1
58.5	58.2	58.2	58.1	58.1	58.0	57.1	57.7	57.5	57.4	57.1	57.0	58.4	2
54.7	54.7	54.6	54.4	54.5	54.4	54.2	54.1	53.9	53.8	53.7	53.5	55.1	3
55.5	55.6	55.8	55.7	55.9	56.0	56.1	56.2	56.3	56.2	56.2	56.1	55.3	4
53.6	53.3	53.0	52.7	52.7	52.7	52.7	52.5	52.5	52.4	52.3	52.3	53.9	5
52.6	52.7	53.0	53.2	53.3	53.3	53.1	53.0	52.9	52.5	52.2	52.2	52.7	6
47.1	46.9	46.6	46.2	46.1	46.1	45.8	45.6	45.4	45.2	45.3	45.3	48.0	7
45.6	45.8	45.9	46.2	46.2	46.3	46.3	46.3	46.3	46.4	46.5	46.6	45.8	8
47.4	47.5	47.7	48.2	48.4	48.6	48.8	49.1	49.2	49.6	49.7	49.7	47.8	9
50.9	50.9	51.1	51.2	51.2	51.4	51.4	51.4	51.5	51.5	51.5	51.4	50.8	10
51.1	51.2	51.4	51.6	51.7	51.8	51.9	52.0	52.0	52.0	52.0	52.0	51.3	11
52.1	52.2	52.2	52.4	52.7	52.8	53.0	53.2	53.4	53.5	53.5	53.7	52.5	12
55.2	55.4	55.6	55.8	55.9	56.0	56.1	56.0	56.0	56.1	56.2	56.3	55.2	13
56.3	56.3	56.4	56.5	56.5	56.4	56.2	55.9	55.5	55.2	54.9	54.7	56.3	14
52.2	52.0	52.6	53.1	53.7	54.3	54.8	54.9	55.5	55.6	55.9	56.1	53.9	15
50.9	50.1	49.6	49.0	48.7	48.4	48.1	47.7	47.4	47.1	46.9	47.0	51.5	16
50.1	49.8	49.4	48.9	48.6	48.3	48.2	48.2	48.1	47.8	47.5	47.6	49.0	17
48.0	48.3	48.6	49.0	49.4	50.2	50.4	51.1	51.4	51.8	52.3	52.8	48.9	18
60.2	60.6	61.3	61.9	62.5	63.0	63.5	63.8	64.0	64.5	65.2	65.4	59.7	19
68.5	68.5	68.6	68.5	68.5	68.5	68.4	68.7	68.3	68.3	68.1	67.8	67.8	20
65.8	66.0	66.2	66.1	66.1	65.9	65.7	65.6	65.5	65.2	65.1	65.0	66.3	21
63.6	63.8	64.0	64.1	63.9	63.9	64.2	64.3	64.3	64.2	64.4	64.4	64.1	22
65.2	65.6	65.7	65.8	65.9	66.2	66.4	66.3	66.2	66.3	66.4	66.3	65.5	23
66.5	66.6	67.1	67.4	67.6	67.7	67.6	67.8	67.9	68.1	68.0	68.0	66.9	24
68.6	68.8	69.1	69.1	69.3	69.7	69.8	69.8	69.9	70.2	70.3	70.5	69.1	25
70.1	70.0	70.0	70.1	70.0	69.8	70.0	69.9	69.8	69.6	69.4	68.9	70.2	26
66.9	66.8	66.7	66.7	66.8	66.9	67.0	66.9	66.9	66.9	66.9	66.9	67.4	27
67.2	67.2	67.2	67.3	67.2	67.1	67.3	67.1	67.4	67.5	67.4	67.3	67.2	28
65.6	65.3	65.3	65.4	65.5	65.4	65.3	65.2	64.8	64.6	64.3	64.2	65.5	29
64.2	64.3	64.3	64.6	64.7	64.9	65.1	65.3	65.5	65.5	65.4	65.3	64.4	30
57.75	57.78	57.85	57.93	58.01	58.10	58.12	58.16	58.15	58.14	58.12	58.11	57.97	Mean
57.74	57.76	57.82	57.88	57.95	58.03	58.04	58.07	58.05	58.03	58.00	57.97		Corr.
- 0.23	- 0.21	- 0.15	- 0.09	- 0.02	+ 0.06	+ 0.07	+ 0.10	+ 0.08	+ 0.06	+ 0.03	0.00		D. f. m.

PRESSURE OF THE AIR. } STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1894. OCTOBER

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	65.3	65.4	65.5	65.7	65.8	66.1	66.2	66.3	66.5	66.0	66.6	66.7
2	68.3	68.2	68.1	68.1	68.0	68.0	68.0	67.9	67.9	67.8	67.7	67.3
3	67.2	67.2	67.2	67.2	67.2	67.0	66.8	66.7	66.4	66.2	65.9	65.7
4	63.1	62.6	62.5	62.3	62.2	62.0	61.8	61.6	61.4	61.2	61.1	60.8
5	58.9	58.7	58.5	58.4	57.9	58.0	57.7	57.2	57.0	56.7	56.6	56.4
6	54.6	54.4	53.8	53.5	53.1	53.0	52.8	52.5	52.3	52.3	52.4	53.0
7	54.1	54.2	54.3	54.4	54.6	54.9	55.1	55.3	55.7	56.0	56.3	56.5
8	60.0	60.2	60.5	60.7	61.1	61.5	61.7	61.9	62.2	62.4	62.7	62.8
9	65.0	65.1	65.2	65.5	65.4	65.3	65.2	64.9	64.8	64.4	64.4	64.3
10	60.4	59.9	59.6	59.0	58.3	58.0	57.6	57.0	56.5	56.2	55.3	55.0
11	56.4	56.8	57.1	57.4	57.6	57.7	57.9	57.9	57.9	58.0	57.9	57.8
12	53.9	53.6	53.6	53.6	53.0	52.8	52.4	51.8	51.5	51.2	50.6	50.0
13	48.2	48.2	48.2	48.4	48.6	48.9	49.2	49.5	49.6	49.7	50.0	50.3
14	49.3	49.2	49.1	49.0	48.8	48.3	48.2	47.9	47.8	47.5	47.2	47.1
15	42.5	42.0	41.6	41.0	40.7	40.5	40.2	40.0	40.0	40.1	40.0	40.1
16	51.6	52.0	52.4	52.7	53.0	53.2	53.3	53.8	54.3	54.9	55.6	55.9
17	62.4	62.7	63.0	63.8	64.1	64.4	64.7	65.0	65.2	65.4	65.5	65.7
18	66.9	66.7	66.6	66.5	66.4	66.4	66.2	65.9	65.5	65.4	65.2	64.9
19	61.8	61.2	60.8	59.8	59.2	58.9	58.0	57.0	56.3	55.9	55.2	54.6
20	46.2	45.9	45.8	46.0	47.2	47.7	48.6	49.1	49.6	49.8	49.9	50.0
21	44.9	45.1	46.0	46.7	47.8	48.6	48.9	49.5	49.9	50.9	51.3	51.8
22	59.3	59.6	59.9	60.2	60.4	60.9	61.2	61.5	61.9	62.1	62.5	62.6
23	62.7	62.2	62.0	61.6	61.2	60.9	60.8	60.5	60.2	60.1	60.0	59.8
24	59.5	59.5	59.5	59.4	59.5	59.4	59.5	59.3	59.2	59.1	59.0	58.8
25	58.6	58.5	58.5	58.6	58.5	58.6	58.6	58.5	58.2	58.2	58.2	58.3
26	59.4	59.6	59.8	59.9	59.9	60.0	60.0	59.9	59.9	60.0	60.0	60.0
27	61.3	61.3	61.4	61.4	61.5	61.5	61.7	61.5	61.5	61.5	61.4	61.3
28	54.8	54.5	53.4	52.8	51.6	50.5	49.5	48.0	46.9	45.4	43.8	43.1
29	31.0	31.1	31.5	32.2	33.2	33.8	34.4	35.1	35.7	36.1	36.8	37.1
30	39.4	39.5	39.5	39.7	39.9	40.2	40.4	40.4	40.6	40.8	41.1	41.7
31	50.5	51.1	51.6	52.0	52.6	52.9	53.0	53.5	53.9	54.0	54.4	54.7
Mean	56.05	56.01	56.02	56.05	56.07	56.13	56.12	56.03	56.01	55.98	55.96	55.94
Corr.	55.93	55.90	55.92	55.96	55.99	56.06	56.06	55.98	55.98	55.96	55.95	55.94
D. f. m.	- 0.16	- 0.19	- 0.17	- 0.13	- 0.10	- 0.03	- 0.03	- 0.11	- 0.11	- 0.13	- 0.14	- 0.15

1894. OCTOBER.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
66.7	67.0	67.2	67.5	67.6	68.0	68.0	68.5	68.6	68.5	68.4	68.4	66.9	1
67.3	67.5	67.6	67.6	67.6	67.6	67.5	67.5	67.4	67.4	67.4	67.3	67.7	2
65.4	65.3	65.4	65.5	65.4	65.2	64.5	64.4	64.2	63.9	63.7	63.3	65.7	3
60.4	60.4	60.2	60.2	60.1	60.0	59.8	59.4	59.4	59.3	59.2	59.1	60.8	4
56.3	56.4	56.2	56.2	56.3	56.3	55.8	55.7	55.7	55.5	55.2	54.7	56.8	5
53.3	53.2	53.3	53.5	53.6	53.8	53.9	54.0	54.0	53.9	53.9	54.2	53.4	6
56.7	56.7	56.9	57.2	57.9	58.2	58.8	58.9	59.3	59.5	59.6	59.8	56.7	7
63.4	64.0	64.4	64.8	65.3	65.4	65.6	65.4	65.4	65.3	65.1	65.0	63.2	8
64.2	64.0	63.8	63.8	63.7	63.1	62.9	62.7	62.1	61.7	61.4	61.0	63.9	9
54.3	53.8	53.5	53.4	53.5	54.1	54.3	54.8	55.2	55.4	55.4	56.2	56.1	10
57.5	57.5	57.5	57.4	56.9	56.6	56.3	56.0	55.5	55.0	54.3	53.9	56.9	11
49.8	49.4	49.2	49.1	48.9	48.8	48.7	48.6	48.5	48.3	48.3	48.2	50.6	12
50.3	50.3	50.3	50.3	50.4	50.5	50.5	50.2	50.1	49.9	49.7	49.5	49.6	13
47.1	47.0	46.8	46.3	46.0	45.9	45.2	44.8	44.7	44.1	43.4	43.3	46.8	14
40.0	40.0	41.8	43.9	45.2	47.1	47.7	48.8	49.4	50.2	50.8	51.3	43.5	15
57.0	57.5	58.2	58.4	58.7	59.2	59.7	60.4	61.1	61.3	61.5	62.0	56.6	16
66.1	66.6	67.1	67.3	67.4	67.4	67.3	67.3	67.3	67.2	67.1	67.0	65.7	17
64.8	64.6	64.5	64.5	64.3	64.2	64.1	63.8	63.7	63.4	63.1	62.4	65.0	18
54.1	53.8	53.2	52.7	52.2	51.3	50.3	49.6	48.9	48.3	47.3	46.8	54.5	19
50.4	49.9	49.7	49.3	48.5	48.1	47.4	46.8	45.9	45.4	45.1	44.9	47.8	20
52.2	52.9	53.6	54.2	54.6	55.6	56.0	56.9	57.2	57.5	58.5	58.8	52.1	21
63.1	63.4	63.6	63.7	63.7	63.6	63.6	63.6	63.5	63.3	63.1	62.9	62.2	22
59.9	60.0	60.0	59.9	59.7	59.7	59.6	59.6	59.5	59.6	59.6	59.6	60.4	23
58.6	58.6	58.7	58.9	58.8	58.8	58.6	58.6	58.7	58.6	58.6	58.6	59.0	24
58.2	58.3	58.5	58.7	58.9	58.7	58.7	58.8	58.9	59.1	59.3	59.3	58.6	25
60.1	60.1	60.3	60.5	60.8	60.9	60.8	60.9	61.1	61.2	61.3	61.4	60.3	26
61.0	60.8	60.5	60.4	59.9	59.7	59.2	59.1	58.6	57.9	57.0	56.1	60.3	27
42.0	41.0	40.2	39.6	38.8	37.8	36.7	35.7	34.6	33.8	32.1	31.2	43.2	28
38.1	38.2	38.5	38.8	38.9	39.1	39.3	39.3	39.5	39.5	39.5	39.4	36.5	29
42.4	43.3	44.1	45.1	45.5	46.2	47.4	47.3	48.0	48.7	49.1	49.7	43.3	30
55.2	55.6	55.9	56.1	56.4	56.6	56.7	56.6	56.7	56.8	56.9	57.0	54.6	31
56.00	56.04	56.15	56.28	56.31	56.37	56.29	56.26	56.22	56.11	55.96	55.88	56.09	Mean
56.01	56.06	56.18	56.33	56.37	56.44	56.37	56.35	56.32	56.22	56.08	56.02		Corr.
- 0.08	- 0.03	+ 0.09	+ 0.24	+ 0.28	+ 0.35	+ 0.28	+ 0.26	+ 0.23	+ 0.13	- 0.01	- 0.07		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1894. NOVEMBER

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	57.0	57.0	57.3	57.5	57.7	57.9	58.1	58.2	58.5	58.7	58.9	59.4
2	60.3	60.1	60.1	60.0	60.0	60.0	60.0	59.7	59.5	59.5	59.6	59.7
3	61.3	61.5	61.6	61.8	62.1	62.4	62.8	62.9	63.0	63.4	63.8	63.9
4	67.5	67.6	67.8	68.0	68.5	68.7	69.0	69.2	69.3	69.6	69.7	69.8
5	68.5	68.3	68.1	67.9	67.7	67.6	67.2	66.7	66.3	66.3	66.4	66.1
6	61.2	60.7	60.3	59.8	59.7	59.3	58.9	58.6	58.3	58.0	57.9	57.7
7	56.4	56.3	56.1	56.1	56.1	56.1	56.1	55.9	56.0	55.8	55.8	55.8
8	55.7	55.6	55.5	55.5	55.6	55.3	55.1	55.0	54.9	54.8	54.7	54.7
9	54.3	54.4	54.5	54.6	54.5	54.4	54.3	54.2	54.1	54.2	54.2	54.2
10	54.6	54.5	54.4	54.4	54.3	54.3	54.2	54.0	54.0	53.9	53.9	53.8
11	53.1	53.1	53.1	53.0	52.8	52.7	52.3	52.0	51.3	51.0	50.3	50.1
12	48.7	48.8	49.0	49.4	49.6	49.9	50.0	50.4	50.8	51.1	51.4	51.1
13	56.0	56.1	56.2	56.6	57.1	57.4	57.6	58.0	58.5	58.7	58.9	59.2
14	63.9	64.2	64.5	64.9	65.1	65.3	65.5	65.8	66.0	66.1	66.3	66.6
15	71.4	71.8	72.1	72.2	72.6	73.1	73.5	73.5	73.7	73.8	73.8	73.8
16	71.9	71.5	71.1	70.5	69.6	68.9	67.6	67.2	66.5	66.4	66.3	66.5
17	69.7	69.8	69.7	69.8	69.6	69.5	69.2	68.6	68.2	67.6	67.1	66.7
18	58.9	58.0	57.4	57.1	56.9	57.1	57.2	57.2	57.0	56.9	56.9	57.0
19	56.8	56.8	56.8	56.7	56.4	56.2	56.0	55.9	55.4	55.2	55.1	55.7
20	59.4	59.8	60.1	60.9	61.3	62.0	62.5	63.2	63.7	64.1	64.5	64.7
21	63.5	63.3	62.2	61.8	61.0	60.2	59.7	58.7	57.4	56.7	56.0	55.1
22	46.4	45.8	45.5	45.4	45.3	45.5	46.4	47.6	48.7	49.9	51.1	52.2
23	60.7	61.3	61.6	62.3	62.5	62.6	62.7	63.0	63.1	63.1	63.0	63.2
24	61.8	61.6	61.3	61.1	60.8	60.6	60.4	60.0	59.8	59.6	59.5	59.4
25	58.0	58.1	58.1	58.3	58.2	58.2	58.2	58.3	58.3	58.3	58.4	58.5
26	60.3	60.2	60.1	60.0	60.0	60.0	60.2	60.3	60.2	60.3	60.3	61.1
27	63.4	63.6	63.8	63.9	63.9	63.9	63.7	63.8	63.9	64.0	64.2	64.4
28	66.8	66.8	66.9	67.3	67.7	67.8	68.0	68.2	68.5	68.7	69.0	69.2
29	71.3	71.3	71.3	71.5	71.7	72.0	72.0	71.8	72.0	72.1	72.1	72.1
30	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.4	73.4	73.4	73.5	73.3
Mean	61.08	61.05	61.00	61.06	61.03	61.08	61.07	61.04	61.01	61.04	61.09	61.17
Corr.	61.33	61.28	61.21	61.24	61.19	61.22	61.18	61.13	61.07	61.08	61.11	61.17
D. f. m.	+ 0.05	0.00	- 0.07	- 0.04	- 0.09	- 0.06	- 0.10	- 0.15	- 0.21	- 0.20	- 0.17	- 0.11

1894. NOVEMBER.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
59.9	60.1	60.4	60.5	60.5	60.7	60.6	60.4	60.5	60.5	60.4	60.4	59.2	1
59.7	59.8	59.9	59.8	60.1	60.1	60.5	60.8	61.1	61.2	61.3	61.2	60.2	2
64.0	64.3	64.9	65.1	65.6	65.8	66.0	66.2	66.5	66.7	66.9	67.1	64.1	3
69.9	69.9	70.0	70.3	70.1	69.9	69.7	69.3	69.1	68.9	68.9	68.7	69.1	4
65.9	65.6	65.3	65.0	64.9	64.6	64.2	63.5	63.3	62.6	62.0	61.6	65.0	5
57.2	57.1	57.1	57.1	57.1	56.9	56.7	56.5	56.5	56.4	56.3	56.4	58.0	6
55.6	55.7	55.8	55.9	55.9	55.9	55.9	55.8	55.9	55.9	55.8	55.8	55.9	7
54.6	54.6	54.5	54.3	54.5	54.7	55.0	55.1	54.8	54.7	54.5	54.2	54.9	8
54.4	54.5	54.5	54.6	54.9	54.9	54.6	54.5	54.5	54.6	54.5	54.6	54.5	9
53.7	53.6	53.5	53.7	54.1	54.0	53.8	53.7	53.6	53.7	53.6	53.2	53.9	10
49.7	49.4	49.3	49.2	48.7	48.5	48.3	48.1	48.1	48.3	48.5	48.7	50.4	11
51.9	52.2	52.8	53.2	53.6	53.9	54.1	54.4	54.8	55.1	55.4	55.6	52.0	12
59.6	60.2	60.6	60.9	61.6	61.7	62.3	62.8	63.1	63.4	63.5	63.6	59.7	13
66.9	67.4	67.8	68.1	68.5	69.0	69.1	69.4	69.8	70.4	70.9	71.2	67.2	14
73.9	74.2	74.3	74.5	74.6	74.5	74.2	73.8	73.5	73.0	72.5	72.4	73.4	15
66.4	66.2	66.6	66.7	66.7	67.0	67.8	68.0	68.4	68.8	69.1	69.3	68.1	16
66.3	65.6	65.3	64.8	64.3	63.7	62.7	61.8	60.9	60.5	59.9	59.4	65.9	17
57.0	56.9	56.9	57.0	57.1	57.1	57.0	57.0	57.0	57.1	57.1	56.9	57.2	18
55.8	55.6	55.6	55.6	55.7	56.0	56.3	56.9	57.2	57.7	58.3	58.9	56.4	19
64.7	64.8	64.8	65.0	65.3	65.4	65.3	65.3	65.1	64.7	64.2	64.0	63.5	20
54.4	54.5	52.5	51.5	50.8	50.2	49.3	48.8	48.4	48.2	47.7	47.1	55.0	21
53.2	54.7	55.2	55.9	56.6	57.2	57.8	58.4	59.0	59.5	60.1	60.2	52.4	22
63.0	63.2	63.3	63.6	63.5	63.4	63.2	63.2	63.0	62.8	62.5	62.2	62.7	23
59.2	59.1	59.1	58.7	58.6	58.5	58.3	58.6	58.2	58.1	58.0	58.0	59.5	24
58.6	58.8	58.9	59.0	59.1	59.2	59.2	59.2	59.3	59.7	60.1	60.3	58.8	25
61.0	61.3	61.7	61.9	61.9	61.9	62.0	62.2	62.4	62.8	63.0	63.3	61.2	26
64.5	64.6	64.8	65.0	65.1	65.3	65.4	65.9	66.0	66.0	66.1	66.4	64.7	27
69.1	69.8	70.1	70.3	70.5	70.6	70.7	70.8	70.8	70.9	71.2	71.2	69.2	28
72.1	72.0	72.1	72.4	72.7	72.9	72.9	73.1	73.2	73.3	73.4	73.5	72.3	29
73.3	73.3	73.3	73.4	73.3	73.3	73.5	73.4	73.4	73.5	73.4	73.4	73.4	30
61.18	61.30	61.36	61.43	61.53	61.56	61.55	61.56	61.58	61.63	61.64	61.63	61.28	Mean
61.16	61.26	61.30	61.34	61.42	61.42	61.39	61.38	61.37	61.40	61.39	61.36		Corr.
- 0.12	- 0.02	+ 0.02	+ 0.06	+ 0.14	+ 0.14	+ 0.11	+ 0.10	+ 0.09	+ 0.12	+ 0.11	+ 0.08		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1894. DECEMBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	73.4	73.4	73.4	73.5	73.4	73.3	73.2	73.2	73.1	73.0	72.6	72.4
2	68.6	67.8	67.8	67.8	67.8	67.8	67.7	67.5	67.3	67.3	67.3	67.3
3	66.4	65.9	65.7	65.6	65.6	65.7	65.7	65.6	65.4	65.3	65.2	65.4
4	65.0	65.0	64.9	64.9	64.9	64.9	64.9	64.8	64.8	64.8	64.8	64.9
5	65.0	64.8	64.6	64.3	64.1	64.2	64.3	64.3	64.1	64.1	64.3	64.5
6	62.3	61.9	61.3	61.2	61.1	60.9	60.5	60.1	59.8	59.8	59.8	59.8
7	61.1	61.4	61.5	61.8	61.6	61.6	61.4	61.1	61.0	61.1	61.2	61.2
8	62.2	62.6	62.9	62.9	62.9	63.2	63.4	63.5	63.7	63.8	63.9	64.3
9	64.2	64.2	64.1	63.8	63.7	63.2	62.8	62.3	62.0	61.3	61.0	60.3
10	54.0	53.7	53.5	53.2	52.8	52.7	52.6	52.3	52.0	51.8	51.9	51.7
11	52.8	52.8	52.6	52.3	52.2	51.8	51.8	51.2	50.9	50.2	49.7	49.6
12	45.4	45.2	45.0	45.0	44.7	44.4	44.5	44.4	44.3	44.2	44.2	44.5
13	47.6	48.0	48.2	48.5	48.7	48.9	49.1	49.4	49.5	49.8	50.2	50.5
14	50.0	49.6	49.2	48.7	48.3	47.8	47.1	46.4	45.9	45.1	44.4	43.8
15	40.8	40.9	41.1	41.1	40.9	40.9	40.8	40.7	40.7	40.7	40.8	40.9
16	40.1	40.2	40.3	40.4	40.3	40.1	40.1	40.3	40.2	40.3	40.4	40.5
17	42.3	42.5	42.8	43.0	43.2	43.2	43.5	43.8	44.0	44.2	44.8	45.2
18	47.5	47.7	48.3	48.5	49.0	49.5	49.6	49.8	50.1	50.5	50.9	51.2
19	52.1	52.1	52.3	52.6	52.8	52.1	53.3	53.4	53.6	53.4	53.7	53.8
20	56.1	56.4	56.7	57.5	57.7	58.0	58.5	58.8	58.9	59.2	59.4	59.6
21	60.8	60.9	60.9	61.0	61.1	61.1	61.1	61.0	60.9	61.0	61.0	60.8
22	52.0	51.0	49.3	48.9	47.8	46.5	45.1	43.6	42.0	41.2	40.1	39.2
23	32.7	32.5	32.1	32.1	31.8	31.5	31.2	30.9	30.6	30.1	29.6	28.8
24	28.0	28.1	28.3	28.4	28.3	28.0	27.9	27.6	27.3	27.4	27.5	27.6
25	32.3	33.2	33.8	34.4	34.9	35.5	36.0	36.5	36.6	37.4	37.6	38.3
26	42.4	42.7	43.2	43.5	43.7	44.0	44.3	44.4	44.4	44.5	44.7	45.2
27	45.8	45.5	45.3	45.2	45.1	45.0	45.1	44.9	44.7	44.5	44.4	44.2
28	38.9	38.4	37.9	37.7	37.4	37.1	36.6	36.1	35.9	35.2	35.1	34.8
29	32.4	32.0	31.7	31.5	31.5	31.4	31.1	31.0	30.8	31.1	31.2	31.2
30	37.4	38.3	39.0	39.6	40.1	40.8	41.0	41.4	41.7	42.6	43.4	44.0
31	49.3	49.6	50.1	50.4	51.2	51.6	51.8	52.1	52.4	52.6	53.4	53.9
Mean	50.61	50.59	50.57	50.62	50.60	50.54	50.52	50.40	50.28	50.24	50.28	50.30
Corr.	50.40	50.40	50.40	50.47	50.46	50.42	50.42	50.32	50.22	50.20	50.26	50.30
D. f. m.	+ 0.03	+ 0.03	+ 0.03	+ 0.10	+ 0.09	+ 0.05	+ 0.05	- 0.05	- 0.15	- 0.17	- 0.11	- 0.07

1894. DECEMBER.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
72.1	72.1	72.2	72.2	72.1	71.6	71.1	70.9	70.4	70.1	69.6	68.9	72.1	1
66.9	66.9	66.9	66.7	66.7	66.7	66.7	66.7	66.6	66.7	66.6	66.8	67.2	2
65.5	65.4	65.4	65.3	65.2	65.2	65.2	65.1	65.1	65.1	65.2	65.1	65.4	3
65.0	65.0	65.0	65.1	65.3	65.5	65.4	65.5	65.5	65.4	65.3	65.2	65.1	4
64.4	64.3	64.1	63.9	63.9	63.9	63.9	63.8	63.6	63.4	63.0	62.6	64.1	5
59.9	59.9	60.0	60.2	60.2	60.4	60.6	60.7	60.8	60.8	60.8	60.9	60.6	6
61.3	61.4	61.5	61.6	61.6	61.6	61.7	61.7	61.9	61.9	61.9	61.9	61.5	7
64.7	64.8	64.9	64.6	64.8	64.8	64.9	65.1	64.8	64.6	64.5	64.5	64.0	8
59.8	59.5	59.3	58.7	58.1	57.5	56.9	56.3	55.7	55.4	54.8	54.4	60.0	9
51.8	52.0	52.1	52.3	52.3	52.4	52.6	52.7	52.8	52.9	53.0	53.2	52.6	10
49.3	49.1	49.0	48.9	48.6	48.3	47.6	47.2	47.0	46.4	45.9	45.5	49.6	11
44.7	44.8	45.2	45.3	45.6	45.8	45.9	46.3	46.5	46.7	47.0	47.1	45.3	12
50.9	50.9	51.2	51.1	51.1	51.1	51.3	51.2	50.8	50.7	50.7	50.6	50.0	13
43.7	43.1	42.8	42.6	41.9	41.7	41.3	41.2	41.2	41.1	40.9	40.8	44.5	14
40.7	40.9	41.0	40.9	40.9	40.8	40.7	40.8	40.7	40.6	40.7	40.3	40.8	15
40.7	40.9	40.8	41.0	41.3	41.5	41.6	41.5	41.5	41.7	41.9	42.1	40.8	16
44.9	45.4	45.6	46.2	46.5	46.4	46.4	46.7	46.7	46.9	47.4	47.5	45.0	17
51.2	51.3	51.3	51.4	51.3	51.4	51.4	51.5	51.6	51.6	51.6	51.8	50.4	18
53.9	53.9	54.0	54.2	54.5	54.8	55.1	55.2	55.4	55.7	55.8	56.0	53.9	19
60.0	60.2	60.2	60.4	60.6	60.6	60.7	60.8	60.7	60.8	60.9	60.8	59.3	20
60.3	60.1	59.9	59.6	58.7	58.0	57.3	56.8	56.1	55.2	54.2	53.1	59.2	21
38.1	37.5	36.8	36.1	35.8	35.3	34.5	34.1	34.0	33.6	33.2	33.0	40.4	22
28.1	27.6	27.3	27.1	27.1	27.0	27.1	27.2	27.4	27.5	27.8	27.9	29.3	23
27.8	28.5	28.9	29.4	29.5	29.7	29.8	30.1	30.2	30.7	31.3	31.7	28.8	24
38.3	38.7	38.9	39.3	39.5	39.8	40.4	40.7	41.1	41.3	41.6	42.1	37.8	25
45.5	45.4	45.4	45.5	45.7	45.6	45.7	45.7	45.8	45.8	45.8	45.9	44.8	26
44.1	43.5	43.3	43.1	42.7	41.1	41.6	40.9	40.3	39.9	39.4	39.4	43.3	27
34.4	34.4	34.5	34.5	34.4	34.2	33.6	33.4	33.1	32.8	32.6	32.4	35.2	28
31.3	31.6	32.2	32.5	32.9	33.4	34.0	34.1	34.9	35.2	36.2	36.9	32.6	29
44.0	44.2	45.1	45.6	46.6	46.8	47.0	47.3	47.4	48.0	48.3	48.9	43.7	30
54.3	55.1	55.7	55.9	56.3	56.8	56.8	57.4	57.5	58.0	58.6	59.0	54.2	31
50.25	50.27	50.34	50.36	50.38	50.31	50.28	50.28	50.23	50.21	50.21	50.20	50.37	Mean
50.27	50.31	50.40	50.44	50.48	50.43	50.42	50.43	50.40	50.40	50.42	50.43		Corr.
- 0.10	- 0.06	+ 0.03	+ 0.07	+ 0.11	+ 0.06	+ 0.05	+ 0.06	+ 0.03	+ 0.03	+ 0.05	+ 0.06		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1895. JANUARY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	59.4	60.0	59.9	60.1	60.6	61.0	61.3	61.9	61.8	62.0	62.4	62.8
2	66.7	66.7	66.8	66.8	66.8	67.2	67.6	67.5	67.7	67.9	68.1	68.6
3	71.9	71.9	71.8	71.9	71.9	71.9	71.7	71.5	71.5	71.2	71.4	71.4
4	68.6	68.4	68.1	67.9	67.7	67.7	67.4	67.1	66.9	66.7	66.5	66.7
5	64.2	64.2	63.9	63.4	63.3	63.2	62.7	62.3	61.5	61.6	61.0	60.8
6	57.7	57.7	57.7	57.8	58.0	58.0	58.1	58.3	58.4	58.8	59.3	59.8
7	62.0	62.0	62.0	62.0	61.9	61.7	61.6	61.6	61.2	60.9	60.8	60.9
8	59.2	58.9	58.8	58.7	58.4	58.2	57.9	57.6	57.5	56.8	56.5	56.3
9	53.8	53.6	53.4	53.1	53.1	53.1	53.2	53.4	53.6	53.8	54.1	54.7
10	59.3	59.8	60.4	60.6	61.3	61.6	61.8	62.0	62.3	62.9	63.5	63.8
11	65.2	64.9	64.9	64.7	64.6	64.3	64.1	63.5	62.9	62.2	61.6	61.0
12	50.2	49.5	48.8	47.9	47.3	45.7	45.1	44.5	45.0	45.4	46.4	47.4
13	48.3	48.2	48.4	48.4	48.3	48.3	48.2	48.3	48.1	48.1	48.0	48.2
14	50.2	50.5	50.8	51.2	51.4	51.6	51.9	51.9	52.1	52.5	52.9	52.8
15	50.3	50.1	49.9	49.5	49.1	48.8	48.5	48.0	47.8	47.4	47.1	47.0
16	47.5	47.6	47.8	48.0	48.1	48.3	48.4	48.3	48.6	48.7	48.9	49.2
17	50.3	50.1	50.2	50.3	50.3	50.2	50.1	50.1	50.2	50.4	50.6	50.6
18	54.1	54.4	55.2	55.5	56.3	56.8	57.2	57.7	57.9	58.5	59.0	59.4
19	60.0	60.3	60.6	61.1	61.4	61.8	62.1	62.3	62.6	63.0	63.4	63.9
20	67.8	67.8	67.9	68.1	68.3	68.5	68.7	68.8	68.7	69.0	69.2	69.3
21	68.0	67.8	67.5	67.2	67.0	66.8	66.7	66.4	66.0	65.8	65.9	65.9
22	63.0	62.5	62.2	62.0	61.9	61.3	61.1	60.7	60.2	59.7	59.2	59.1
23	57.4	57.5	57.6	57.8	57.9	58.0	58.2	58.7	59.0	59.2	60.0	60.6
24	62.8	62.8	62.9	62.9	62.9	62.9	62.8	62.6	62.5	62.6	62.7	62.9
25	66.9	67.2	67.6	67.9	68.1	68.2	68.3	68.6	68.9	69.1	69.3	69.4
26	69.4	69.4	69.4	69.2	69.4	69.2	68.9	68.8	68.5	68.3	68.5	68.7
27	71.1	71.3	71.4	71.6	71.8	71.8	71.8	71.7	71.7	71.6	71.5	71.6
28	71.8	72.0	72.2	72.7	73.1	73.3	73.5	73.6	73.7	73.7	74.3	74.4
29	74.2	74.0	73.8	73.5	73.1	73.0	72.8	72.5	72.0	71.5	71.3	71.1
30	71.7	71.8	71.6	71.2	71.1	70.8	70.6	70.3	69.7	69.6	69.4	69.5
31	68.2	68.4	68.5	68.6	68.6	68.7	68.9	69.3	69.4	69.7	70.0	70.5
Mean	61.65	61.65	61.68	61.66	61.71	61.67	61.65	61.61	61.55	61.57	61.70	61.88
Corr.	61.87	61.85	61.86	61.82	61.85	61.79	61.65	61.69	61.61	61.61	61.72	61.88
D. f. m.	- 0.08	- 0.10	- 0.09	- 0.13	- 0.10	- 0.16	- 0.30	- 0.26	- 0.34	- 0.34	- 0.23	- 0.07



1895. JANUARY.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
63.4	63.9	64.1	64.7	65.0	65.6	65.6	65.7	65.8	66.2	66.3	66.4	63.2	1
68.8	69.3	69.6	70.1	70.6	71.1	71.1	71.2	71.3	71.3	71.3	71.7	69.0	2
71.1	70.9	70.7	70.5	70.7	70.2	70.1	70.1	69.9	69.6	69.2	68.6	70.9	3
66.6	66.3	66.1	65.9	66.0	65.7	65.6	64.8	64.8	64.7	64.8	64.6	66.5	4
60.1	60.1	60.1	60.1	59.9	59.7	59.5	59.2	58.7	58.4	58.2	57.7	61.0	5
60.3	60.8	61.3	61.5	61.6	61.4	61.3	61.1	61.4	61.6	61.9	62.0	59.8	6
60.9	60.8	60.7	60.6	60.6	60.5	60.4	60.3	60.1	59.7	59.5	59.3	60.9	7
56.1	56.0	55.9	55.4	55.3	55.1	55.1	55.2	55.0	54.6	54.3	54.2	56.5	8
55.0	55.2	55.6	55.6	55.8	56.3	56.5	57.1	57.3	57.6	58.2	58.6	55.1	9
64.0	64.1	64.5	64.9	65.1	65.3	65.4	65.7	65.7	65.6	65.3	65.2	63.3	10
60.4	59.7	59.6	58.7	57.6	56.5	55.6	54.8	53.8	52.9	52.0	51.0	59.9	11
48.6	48.9	49.2	49.5	49.7	49.7	49.6	49.5	49.3	48.9	48.6	48.4	48.0	12
48.3	48.3	48.3	48.6	48.9	49.0	49.1	49.3	49.6	49.6	49.6	49.9	48.6	13
52.8	52.8	52.9	53.3	53.4	53.4	53.2	52.6	52.2	52.0	51.2	50.9	52.1	14
46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	47.0	47.2	47.3	47.4	47.8	15
49.7	49.7	49.7	49.9	50.0	50.2	50.1	50.0	50.0	50.1	50.3	50.2	49.1	16
51.0	51.3	51.3	51.3	51.4	51.6	51.6	52.1	52.3	52.4	53.0	53.5	51.1	17
59.8	59.7	60.0	60.3	60.6	60.5	60.5	60.3	60.2	59.8	59.7	59.8	58.5	18
64.3	64.8	65.5	66.0	66.1	66.4	67.1	67.3	67.6	67.8	67.9	67.9	64.2	19
69.7	69.8	69.8	70.0	70.0	70.1	70.0	69.7	69.4	69.1	68.8	68.4	69.0	20
65.9	65.8	65.6	65.4	65.4	65.4	65.2	64.8	64.4	64.0	63.5	63.2	65.8	21
59.1	59.0	58.9	58.9	58.7	58.3	58.0	57.7	57.5	57.5	57.6	57.7	59.7	22
61.0	61.3	61.6	61.9	62.2	62.4	62.6	62.7	62.7	62.7	62.8	62.8	60.4	23
63.2	63.3	63.9	64.2	64.6	64.9	65.0	65.2	65.5	65.8	66.1	66.3	63.8	24
69.6	69.7	69.8	70.0	70.2	70.2	70.1	70.0	69.9	69.8	69.6	69.5	69.1	25
68.9	69.1	69.3	69.3	69.7	69.9	70.2	70.3	70.4	70.6	70.9	71.0	69.5	26
71.5	71.5	71.6	72.0	72.1	72.0	71.9	71.7	71.4	71.2	71.3	71.5	71.6	27
74.8	75.1	75.2	75.3	75.3	75.3	75.2	75.0	74.8	74.7	74.7	74.3	74.1	28
70.8	70.5	70.9	70.8	70.9	71.0	71.4	71.5	71.6	71.7	71.7	71.7	72.0	29
69.2	68.8	68.6	68.1	67.9	67.1	67.3	67.4	67.5	67.7	67.9	68.1	69.3	30
70.7	71.0	71.4	71.6	72.1	72.5	72.8	73.0	73.2	73.4	73.6	73.9	70.8	31
62.02	62.08	62.21	62.30	62.40	62.39	62.39	62.33	62.27	62.20	62.16	62.15	61.95	Mean
62.00	62.04	62.15	62.22	62.30	62.27	62.25	62.17	62.09	62.00	61.94	61.91		Corr.
+ 0.05	+ 0.09	+ 0.20	+ 0.27	+ 0.35	+ 0.32	+ 0.30	+ 0.22	+ 0.14	+ 0.05	+ 0.01	+ 0.04		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1895. FEBRUARY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	74.3	74.6	74.8	75.3	75.7	75.9	76.2	76.5	76.5	76.6	77.0	77.4
2	79.3	79.5	79.8	80.0	80.2	80.3	80.4	80.7	80.6	80.5	80.8	80.9
3	82.9	82.9	83.0	82.8	82.8	82.7	82.7	82.7	82.5	82.3	82.2	82.3
4	78.3	77.2	75.9	75.1	74.1	73.1	72.1	71.3	70.8	70.3	69.6	70.2
5	74.4	75.0	75.6	75.9	76.3	76.8	77.2	77.6	78.2	78.7	79.6	80.1
6	84.1	83.3	82.4	81.5	80.4	80.1	79.5	79.3	78.7	78.5	78.9	79.2
7	81.6	81.8	81.9	82.1	82.4	82.4	82.3	82.0	81.6	81.4	81.2	81.0
8	69.7	69.1	68.6	67.9	67.4	67.3	67.2	66.6	66.3	66.2	66.3	66.1
9	67.2	67.6	67.9	68.3	69.0	69.4	69.7	69.9	70.3	70.7	71.3	72.0
10	76.2	76.4	76.5	76.6	76.7	76.5	76.3	76.2	76.2	75.7	75.3	75.2
11	63.7	62.4	61.3	60.9	59.8	59.0	58.1	57.1	56.1	55.1	54.1	53.7
12	46.1	45.7	45.3	45.0	44.9	45.0	45.0	45.0	45.1	45.4	45.7	46.0
13	51.9	52.9	53.9	54.8	55.4	56.0	56.8	57.6	58.5	59.0	59.4	60.1
14	68.8	69.0	69.5	70.0	70.5	71.1	71.6	72.2	72.3	72.9	73.2	73.6
15	77.5	77.7	77.8	78.4	78.7	78.7	78.8	79.2	79.2	79.3	79.6	79.6
16	81.4	81.6	81.7	82.2	82.4	82.5	82.9	83.1	83.4	83.6	83.9	84.3
17	82.7	82.2	81.7	80.9	80.5	79.8	78.9	78.2	77.6	76.4	76.0	75.5
18	72.5	73.0	73.3	73.9	74.7	75.2	75.6	76.1	76.8	77.1	77.8	78.0
19	81.2	81.1	81.1	81.1	81.1	80.9	80.4	80.3	80.2	79.8	79.4	78.9
20	67.9	67.5	67.1	67.2	67.3	67.4	67.5	67.7	67.9	68.4	68.6	68.9
21	74.3	74.8	75.2	75.5	75.8	76.0	76.3	76.8	76.8	77.3	77.6	77.9
22	75.2	74.6	74.1	73.4	72.9	72.3	71.8	71.2	70.9	70.9	71.1	71.3
23	69.0	68.9	68.0	67.4	67.1	66.7	66.1	65.5	64.7	64.3	64.1	63.9
24	61.1	60.8	60.7	60.6	60.7	60.6	60.7	60.3	60.2	60.1	60.1	60.0
25	62.6	62.9	63.2	63.5	63.8	64.1	64.2	64.2	64.1	64.3	64.4	64.4
26	64.9	64.8	64.7	64.7	64.5	64.4	64.3	63.5	62.6	61.8	61.0	60.1
27	53.1	53.2	53.6	53.9	54.0	54.4	54.4	54.5	54.4	54.5	54.6	54.8
28	55.0	55.1	55.4	55.8	56.0	56.3	56.7	56.9	57.0	57.1	57.2	57.2
Mean	70.60	70.56	70.50	70.52	70.54	70.53	70.49	70.44	70.34	70.29	70.36	70.45
Corr.	70.30	70.29	70.26	70.30	70.35	70.37	70.36	70.33	70.26	70.24	70.33	70.45
D. f. m.	- 0.07	- 0.08	- 0.17	- 0.07	- 0.02	0.00	- 0.01	- 0.04	- 0.11	- 0.13	- 0.04	+ 0.08

1895. FEBRUARY.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
77.8	78.0	78.2	78.6	78.8	79.0	79.3	79.5	79.4	79.2	79.2	79.0	77.4	1
81.1	81.3	81.6	81.7	81.9	82.1	82.1	82.2	82.5	82.5	82.8	83.0	81.2	2
82.4	82.2	82.4	82.4	82.3	82.1	81.7	81.7	81.3	80.6	79.8	79.2	82.1	3
70.2	70.2	70.2	70.9	71.4	72.1	72.2	72.9	73.0	73.3	73.7	74.0	72.6	4
80.5	81.3	82.0	82.7	83.2	83.7	84.5	84.9	85.2	85.2	85.1	84.9	80.4	5
79.3	79.4	79.7	79.9	80.1	80.1	80.1	80.2	80.4	80.7	81.0	81.3	80.4	6
80.4	79.6	78.9	78.2	78.4	76.4	74.9	74.3	73.4	72.6	71.4	70.8	78.8	7
66.1	66.2	66.2	66.4	66.7	66.6	66.7	66.7	66.8	66.9	66.9	67.0	67.0	8
72.6	72.7	73.3	73.4	73.9	74.1	74.5	75.0	75.0	75.5	75.7	76.0	71.9	9
74.6	74.1	73.6	73.0	72.1	71.3	70.1	69.2	68.2	67.0	66.0	64.9	73.7	10
53.0	52.0	51.3	50.6	50.1	49.3	48.4	47.9	47.5	47.1	46.9	46.7	53.8	11
46.6	46.7	47.3	47.5	47.9	48.6	49.0	49.5	49.8	50.2	50.5	51.0	47.0	12
60.7	61.4	62.1	62.9	64.0	64.8	65.3	65.9	66.4	67.0	67.6	68.1	60.5	13
73.9	74.2	74.9	75.3	75.8	76.0	76.3	76.5	76.7	77.1	77.5	77.5	73.6	14
79.7	79.9	80.1	80.4	80.6	80.6	80.8	80.8	81.2	81.1	81.1	81.2	79.7	15
84.5	84.6	84.7	84.7	84.7	84.6	84.5	84.3	84.1	83.9	83.4	83.2	83.5	16
74.3	73.7	73.1	72.6	72.4	72.2	71.8	71.7	71.7	71.8	71.9	72.1	75.8	17
78.3	78.7	78.9	79.2	79.4	79.7	79.9	80.0	80.5	80.7	80.8	81.0	77.5	18
78.5	78.0	77.5	75.7	75.2	73.3	72.0	71.0	70.4	69.0	68.8	67.9	76.8	19
69.4	69.8	70.4	70.7	71.0	71.7	72.1	72.4	72.6	73.0	73.6	73.8	69.7	20
77.8	77.9	77.8	78.0	78.0	77.6	77.5	77.3	76.7	76.3	75.8	75.5	76.7	21
71.4	71.5	71.5	71.3	71.2	71.1	70.6	70.4	70.2	70.2	69.9	69.6	71.6	22
63.7	63.5	62.8	62.8	62.5	62.4	62.3	62.2	62.1	61.9	61.5	61.3	64.4	23
60.1	60.0	60.0	60.0	60.2	60.7	61.0	61.1	61.3	61.5	62.0	62.3	60.7	24
64.5	64.6	64.6	64.7	64.8	64.7	64.6	64.6	64.7	64.7	64.5	64.7	64.2	25
59.0	57.6	56.3	56.2	55.3	54.9	54.3	53.9	53.4	53.5	53.2	53.1	59.2	26
54.7	54.8	54.9	55.0	55.1	55.1	55.1	55.0	55.0	55.0	54.9	54.8	54.5	27
56.8	56.6	56.7	56.5	56.3	56.2	56.2	55.9	55.8	55.8	55.8	55.8	56.3	28
70.43	70.37	70.39	70.40	70.48	70.39	70.28	70.25	70.19	70.12	70.05	69.99	70.37	Mean
70.46	70.42	70.47	70.51	70.61	70.55	70.47	70.47	70.43	70.39	70.35	70.31		Corr.
+ 0.09	+ 0.05	+ 0.10	+ 0.14	+ 0.24	+ 0.18	+ 0.10	+ 0.10	+ 0.06	+ 0.02	- 0.02	- 0.06		D. f. m.

PRESSURE OF THE AIR. } STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1895. MARCH.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	55.8	55.8	55.8	55.8	55.7	55.3	54.8	54.5	54.1	54.0	53.7	53.5
2	53.9	54.2	54.9	55.8	56.6	57.0	57.8	58.4	59.0	59.6	59.6	60.7
3	66.6	67.3	68.0	68.5	68.9	69.4	69.8	70.3	70.6	70.9	71.2	71.6
4	74.5	74.7	74.7	74.6	74.7	74.8	74.8	74.7	74.5	75.0	75.1	75.1
5	75.9	76.0	76.1	76.2	76.4	76.5	76.6	76.5	76.6	76.7	76.9	77.2
6	78.5	78.7	79.0	79.0	79.4	79.6	79.7	79.8	79.9	80.0	80.2	80.2
7	79.6	79.7	79.6	79.7	79.8	79.6	79.5	79.5	79.5	79.5	79.4	79.7
8	79.9	80.0	80.2	80.3	80.4	80.6	80.8	80.8	81.1	81.2	81.4	81.6
9	83.4	83.4	83.5	83.7	83.8	83.9	83.9	84.0	83.9	83.9	84.3	84.6
10	84.8	84.7	84.9	84.9	84.8	84.6	84.5	84.2	84.0	83.6	83.6	83.8
11	81.5	81.5	81.3	81.2	81.1	81.0	80.8	80.7	80.6	80.0	80.0	80.0
12	75.4	74.8	74.3	73.6	73.1	72.1	71.2	69.9	69.3	68.0	67.5	66.9
13	59.9	59.7	59.5	59.5	59.5	59.4	59.2	59.0	58.5	58.3	59.2	59.0
14	59.8	59.8	59.8	59.8	59.8	59.9	59.9	59.8	59.8	59.8	59.7	59.8
15	58.1	58.1	58.1	58.2	58.4	58.5	58.5	58.4	57.9	57.6	57.3	56.8
16	55.1	55.1	55.2	55.3	55.3	55.4	55.6	55.5	55.4	55.4	55.6	55.8
17	58.1	58.3	58.6	59.1	59.3	59.4	59.6	59.8	60.1	60.3	60.9	61.1
18	64.0	64.4	64.7	64.9	65.0	65.2	65.4	65.5	65.7	66.3	66.4	66.6
19	67.8	67.9	68.0	68.2	68.3	68.3	68.3	68.3	68.2	68.4	68.7	68.7
20	69.0	69.2	69.3	69.3	69.4	69.5	69.5	69.6	69.4	69.7	69.0	70.1
21	69.9	69.9	69.9	69.9	69.8	69.8	69.8	69.4	69.3	69.4	69.4	69.3
22	68.1	68.0	68.0	67.9	67.8	67.8	67.8	67.8	67.8	67.8	67.9	68.0
23	67.4	67.3	67.3	67.4	67.4	67.3	67.2	67.2	67.0	67.0	67.1	67.2
24	65.8	65.8	65.8	65.9	65.9	66.0	66.0	65.9	65.9	65.8	65.6	65.4
25	65.3	65.5	65.6	65.6	65.7	65.8	66.0	66.0	66.0	65.8	65.8	65.8
26	66.2	66.4	66.6	66.7	66.9	67.0	67.1	67.3	67.4	67.7	67.9	68.0
27	69.3	69.6	69.8	69.8	69.9	69.8	69.8	69.8	69.7	69.8	69.8	69.8
28	69.5	69.4	69.2	69.1	69.0	68.5	68.1	67.8	67.4	66.7	66.5	65.8
29	62.4	62.1	62.1	62.1	62.1	62.2	62.2	62.1	62.1	62.0	62.2	62.5
30	62.8	62.9	63.1	63.2	63.3	63.3	63.2	63.1	62.8	62.9	62.9	62.7
31	61.4	61.3	61.2	61.1	61.0	60.9	60.6	60.5	60.2	60.3	60.3	60.3
Mean	68.05	68.11	68.20	68.27	68.34	68.33	68.32	68.26	68.18	68.17	68.26	68.31
Corr.	68.11	68.17	68.25	68.31	68.38	68.36	68.35	68.28	68.20	68.18	68.27	68.31
D. f. m.	- 0.17	- 0.11	- 0.03	+ 0.03	+ 0.10	+ 0.08	+ 0.07	0.00	- 0.08	- 0.10	- 0.01	+ 0.03

1895. MARCH.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
53.4	53.2	52.9	52.9	53.0	52.7	52.4	52.4	52.5	52.8	53.1	53.4	53.9	1
61.0	61.9	62.7	63.4	63.9	64.5	64.7	65.1	65.6	65.8	66.2	66.4	66.8	2
71.7	72.5	72.7	73.4	73.6	73.6	73.7	73.8	73.9	74.1	74.7	74.7	71.5	3
75.2	75.1	75.0	75.4	75.4	75.4	75.3	75.3	75.3	74.4	75.6	75.8	75.0	4
77.2	77.1	77.1	77.1	77.5	77.7	78.0	78.1	78.0	78.2	78.2	78.2	77.1	5
80.3	80.3	80.4	80.5	80.4	80.5	80.6	80.3	80.2	80.3	80.2	79.6	79.9	6
79.8	79.8	79.7	79.8	79.8	79.8	79.7	79.8	79.8	79.7	79.8	79.8	79.7	7
81.8	81.8	82.0	82.1	82.4	82.4	82.4	82.6	82.7	82.8	83.0	83.2	81.6	8
84.7	84.9	85.2	85.4	85.6	85.7	85.4	85.4	85.2	85.3	85.1	84.9	84.5	9
83.9	84.0	84.1	84.1	83.7	83.3	82.5	81.9	81.9	81.8	81.7	81.7	83.6	10
79.9	79.8	79.6	79.3	79.1	78.8	78.0	77.4	76.8	76.3	76.0	75.4	79.4	11
66.1	65.3	64.5	64.1	63.5	63.0	62.6	61.7	61.5	61.5	61.2	60.1	67.1	12
58.8	58.9	59.0	59.1	59.2	59.2	59.2	59.2	59.3	59.6	59.7	59.9	59.2	13
59.6	59.3	59.2	59.2	59.2	59.1	58.8	58.6	58.4	58.3	58.2	58.1	59.3	14
56.6	56.7	56.9	57.0	56.7	56.3	56.0	55.7	55.5	55.4	55.3	55.1	57.1	15
56.0	56.1	56.2	56.3	56.9	57.0	57.4	57.6	57.7	57.0	58.0	58.0	56.2	16
61.3	61.2	61.8	62.1	62.4	62.6	62.8	63.0	63.3	63.4	63.7	63.8	61.1	17
66.8	67.0	67.1	67.2	67.4	67.4	67.4	67.5	67.6	67.5	67.5	67.7	66.3	18
68.7	68.7	68.8	68.9	68.8	68.7	69.0	69.1	68.9	69.0	69.0	69.0	68.6	19
70.1	70.1	70.1	70.2	70.8	70.8	70.8	70.8	70.6	70.4	70.2	70.0	70.0	20
69.2	69.2	69.2	69.2	69.3	69.2	69.0	68.7	68.6	68.4	68.3	68.3	69.3	21
67.9	67.8	67.8	67.8	67.8	67.7	67.7	67.8	67.7	67.7	67.6	67.5	67.8	22
67.2	67.4	67.5	67.7	67.3	66.9	66.7	66.4	66.3	66.2	66.2	66.0	67.0	23
65.1	64.9	65.0	65.2	65.1	65.1	65.3	65.3	65.4	65.4	65.4	65.4	65.5	24
65.8	66.0	66.3	66.6	66.8	66.6	66.4	66.4	66.1	66.2	66.3	66.1	66.0	25
68.1	68.2	68.2	68.3	68.8	68.6	68.6	68.8	69.0	69.0	69.0	69.2	67.9	26
69.8	69.9	70.1	70.2	70.2	70.3	70.2	70.2	70.2	70.0	69.8	69.7	69.9	27
65.3	64.9	64.5	64.5	64.4	64.1	63.8	63.4	63.2	62.8	62.6	62.5	66.0	28
62.5	62.6	62.6	62.7	63.1	63.0	62.9	63.0	63.1	62.9	63.0	62.8	62.5	29
62.8	62.7	62.8	62.7	62.6	62.5	62.2	62.0	62.0	61.8	61.6	61.5	62.6	30
60.0	60.0	60.1	60.2	60.1	60.2	60.0	60.0	60.0	60.0	59.9	59.9	60.4	31
68.28	68.30	68.36	68.47	68.54	68.47	68.37	68.30	68.27	68.19	68.26	68.18	68.28	Mean
68.27	68.29	68.34	68.45	68.51	68.44	68.33	68.26	68.22	68.13	68.20	68.11		Corr.
+ 0.01	+ 0.01	+ 0.06	+ 0.17	+ 0.23	+ 0.16	+ 0.05	- 0.02	- 0.06	- 0.15	- 0.08	- 0.17		D. f. m

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1895. APRIL.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	60.1	60.3	60.5	60.6	60.9	61.3	61.6	61.7	61.8	62.2	62.6	62.9
2	68.2	68.6	68.7	69.2	69.6	69.7	70.1	70.5	70.7	71.0	71.6	72.3
3	76.9	77.4	77.7	78.4	78.6	78.9	79.1	79.4	79.5	79.9	80.2	80.4
4	80.4	80.5	80.7	80.6	80.5	80.1	79.6	79.0	78.7	78.0	77.9	77.4
5	72.7	72.6	72.5	72.4	72.4	72.3	72.2	72.1	71.9	71.9	71.9	71.7
6	66.7	66.6	66.4	66.4	66.3	66.3	66.3	66.2	66.3	66.4	66.4	66.6
7	65.4	65.7	65.8	65.9	66.2	66.5	67.1	67.2	67.4	68.2	68.6	69.1
8	72.9	73.2	73.6	73.8	74.1	74.5	74.7	74.8	74.9	75.6	75.7	75.8
9	78.3	78.4	78.8	79.1	79.2	79.3	79.4	79.6	79.5	80.0	80.0	80.5
10	81.3	81.4	81.6	81.8	81.7	81.8	81.8	82.0	82.1	82.2	82.4	82.5
11	82.9	82.5	81.9	81.3	81.1	81.1	81.1	81.2	81.0	80.5	80.3	80.2
12	76.8	76.4	76.0	75.3	75.1	74.9	74.1	73.7	72.9	72.3	72.0	71.8
13	65.8	65.5	65.2	64.9	64.6	64.4	64.0	63.8	63.5	63.3	62.9	62.7
14	59.7	59.5	59.6	59.5	59.3	59.2	59.1	59.1	58.9	58.9	58.9	59.0
15	60.6	61.1	61.3	61.6	61.4	61.4	61.4	61.4	61.6	61.6	61.8	62.2
16	64.2	64.4	64.5	64.7	64.8	64.9	65.0	65.0	65.1	65.2	65.6	65.9
17	66.0	66.0	65.9	65.9	65.8	65.5	65.2	64.8	64.5	64.5	64.4	64.2
18	61.7	61.5	61.2	61.0	61.0	60.4	60.2	59.7	59.6	59.4	59.0	58.9
19	56.1	56.1	56.1	56.0	55.8	55.7	55.6	55.4	55.4	55.5	55.6	55.7
20	57.4	57.5	57.8	57.8	57.7	57.8	57.8	57.9	58.0	58.1	58.3	58.5
21	60.1	60.2	60.3	60.4	60.4	60.5	60.6	60.6	60.6	60.7	61.2	61.3
22	61.5	61.6	61.8	61.9	61.5	61.2	60.6	59.9	59.5	59.2	59.1	59.0
23	54.1	54.0	53.9	53.8	53.5	53.5	53.4	53.3	53.2	53.2	53.1	53.0
24	51.4	51.4	51.4	51.2	51.0	50.6	50.5	50.2	49.8	49.6	49.4	49.3
25	46.1	46.0	46.0	45.9	45.9	45.8	46.0	46.2	46.3	46.5	46.7	46.8
26	49.3	49.4	49.6	49.9	50.1	50.3	50.5	50.7	50.8	51.3	51.6	51.7
27	55.2	55.4	55.8	56.1	56.4	56.6	57.0	57.3	57.7	58.1	58.5	58.9
28	61.6	61.7	61.8	61.9	62.1	62.1	62.2	62.3	62.2	62.4	62.6	62.7
29	61.3	60.8	60.6	60.5	60.1	59.8	59.6	59.5	59.0	58.8	59.2	59.2
30	60.4	60.8	61.2	61.3	61.5	61.7	61.9	62.2	62.4	62.8	63.2	63.5
Mean	64.50	64.55	64.61	64.60	64.62	64.60	64.59	64.56	64.49	64.58	64.69	64.79
Corr.	64.57	64.62	64.67	64.65	64.67	64.64	64.62	64.59	64.51	64.59	64.70	64.79
D. f. m.	- 0.12	- 0.07	- 0.02	- 0.04	- 0.02	- 0.05	- 0.07	- 0.10	- 0.18	- 0.10	+ 0.01	+ 0.10

1895. APRIL.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean.	Day.
63.3	64.0	64.3	65.1	65.6	65.9	66.1	66.7	66.9	67.1	67.5	67.8	63.6	1
72.6	73.1	73.5	74.0	74.3	74.6	74.8	75.1	75.3	75.8	76.3	76.6	72.3	2
80.2	80.4	80.6	80.8	80.7	80.7	80.6	80.5	80.4	80.4	80.5	80.5	79.7	3
77.0	76.8	76.2	75.9	75.5	75.0	74.4	74.1	73.5	73.3	73.0	72.8	77.1	4
71.2	70.9	70.6	69.6	69.1	68.6	68.0	67.3	67.1	67.0	66.9	66.8	70.8	5
66.3	66.0	65.8	65.4	65.1	65.1	65.1	65.2	65.2	65.2	65.2	65.2	65.9	6
69.5	69.7	70.2	70.4	70.7	71.1	71.5	71.8	72.1	72.4	72.6	72.7	69.1	7
75.8	76.3	76.8	77.2	77.3	77.5	77.6	77.6	77.7	78.0	78.1	78.2	75.9	8
80.5	80.6	80.8	81.0	81.0	81.2	81.0	81.1	81.2	81.2	81.2	81.2	80.2	9
82.4	82.3	82.2	82.5	82.6	82.9	82.7	82.7	83.1	83.1	83.1	83.3	82.3	10
80.0	79.7	79.5	79.3	79.2	79.0	78.7	78.5	77.8	77.6	77.3	77.1	79.9	11
71.1	70.9	70.5	70.3	69.9	69.3	68.7	68.2	67.7	67.4	66.7	66.2	71.6	12
62.3	62.2	62.1	62.0	61.8	61.6	61.1	60.7	60.5	60.1	59.9	59.8	62.7	13
59.0	59.0	59.0	59.4	59.5	59.7	59.9	60.0	60.1	60.2	60.2	60.2	59.5	14
62.2	62.7	62.9	63.0	63.1	63.3	63.4	63.5	63.8	63.9	63.9	64.0	62.4	15
66.0	66.0	65.9	66.0	66.1	66.0	66.0	66.1	66.1	66.0	65.9	65.9	65.5	16
64.1	63.9	63.8	63.8	63.7	63.4	63.1	63.0	62.8	62.7	62.4	62.0	64.2	17
58.9	58.7	58.5	58.2	58.0	57.8	57.6	57.5	57.2	57.0	56.7	56.3	59.0	18
55.8	55.8	56.1	56.3	56.5	56.5	56.6	56.7	57.0	57.2	57.3	57.3	56.2	19
58.5	58.4	58.3	58.2	58.7	59.0	59.3	59.6	59.7	59.8	59.9	60.0	58.5	20
61.4	61.4	61.4	61.5	61.8	61.8	61.9	61.9	61.9	61.8	61.7	61.5	61.1	21
58.8	58.5	58.0	57.6	57.3	57.0	56.6	56.1	55.6	55.3	54.7	54.2	58.6	22
52.9	52.9	52.9	53.0	53.0	52.6	52.5	52.3	52.2	52.0	51.8	51.6	53.0	23
49.1	49.0	48.6	48.5	47.7	47.2	46.8	46.2	46.1	46.1	46.1	46.2	48.9	24
46.8	47.1	47.5	47.7	47.9	48.1	48.2	48.3	48.7	48.8	49.1	49.3	47.2	25
52.0	52.3	52.9	53.2	53.6	53.8	53.8	54.0	54.5	54.6	54.8	54.9	52.1	26
59.0	59.5	59.9	60.1	60.4	60.6	60.8	61.2	61.4	61.5	61.5	61.4	58.8	27
62.7	62.6	62.5	62.5	62.5	62.5	62.4	62.3	62.2	62.0	61.7	61.6	62.2	28
59.3	59.3	59.4	59.5	59.6	59.7	59.8	59.9	60.1	60.2	60.3	60.3	59.8	29
63.6	63.7	64.2	64.2	64.5	64.6	64.7	64.9	64.8	64.8	64.8	64.7	63.2	30
63.74	64.79	64.83	64.87	64.89	64.87	64.79	64.77	64.76	64.75	64.70	64.65	64.69	Mean
64.73	64.78	64.81	64.84	64.86	64.83	66.74	64.72	64.70	64.68	64.63	64.57		Corr.
+ 0.04	+ 0.09	+ 0.12	+ 0.15	+ 0.17	+ 0.14	+ 0.05	+ 0.03	+ 0.01	- 0.01	- 0.06	- 0.12		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1895. MAY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	64.5	64.6	64.6	64.6	64.6	64.6	64.5	64.2	64.2	64.3	64.3	64.4
2	62.7	62.3	61.8	61.4	61.1	60.7	60.2	59.8	59.0	58.5	58.0	57.7
3	54.0	54.0	53.9	54.2	54.2	54.2	54.3	54.2	53.9	53.9	53.9	53.7
4	54.8	54.8	54.8	54.9	55.1	55.3	55.5	55.7	55.9	56.3	56.7	57.2
5	61.1	61.4	61.5	61.8	62.0	62.2	62.3	62.4	62.4	62.5	62.8	63.0
6	63.6	63.6	63.6	63.4	63.4	63.3	63.2	62.8	62.5	62.1	62.2	61.9
7	61.0	61.0	61.0	61.1	60.9	61.0	61.2	61.2	61.1	60.7	60.8	60.8
8	61.6	61.6	61.4	61.3	61.3	61.2	61.0	60.6	60.4	60.5	60.5	60.6
9	62.6	62.9	63.2	63.3	63.5	63.7	63.9	64.2	64.4	64.5	64.8	64.9
10	65.6	65.7	65.8	65.8	65.9	66.1	66.2	66.3	66.3	66.3	66.4	66.3
11	65.2	65.2	65.1	64.9	65.0	64.7	64.5	64.3	64.2	63.9	63.5	63.4
12	61.2	61.2	61.1	61.0	60.9	60.8	60.6	60.4	60.3	60.1	60.0	59.9
13	56.0	55.6	55.1	54.8	54.2	54.1	53.8	53.4	53.0	52.7	52.5	52.5
14	52.7	52.8	52.9	53.1	53.3	53.4	53.7	54.1	54.4	55.0	55.3	55.8
15	61.3	61.7	62.1	62.4	62.7	63.0	63.5	63.7	64.1	64.5	64.9	65.3
16	68.4	68.5	68.6	68.6	68.6	68.6	68.6	68.4	68.3	68.4	68.7	68.7
17	67.0	66.8	66.6	66.6	66.6	66.2	66.1	65.6	65.4	65.1	65.0	64.8
18	60.3	60.2	60.1	59.8	59.5	59.1	58.4	58.1	57.7	57.3	56.5	56.4
19	56.5	56.7	56.8	57.0	57.0	57.1	57.2	57.2	57.4	57.7	58.0	58.0
20	57.9	57.7	57.5	57.3	56.8	56.4	56.0	55.4	55.1	54.9	54.9	54.5
21	49.9	49.7	49.7	49.1	48.5	48.1	47.7	47.0	46.4	46.1	45.7	45.3
22	45.4	45.7	46.0	46.4	46.6	47.0	47.4	47.8	48.0	48.3	48.6	49.2
23	53.3	53.5	53.7	54.0	54.3	54.7	54.9	55.2	55.6	55.8	56.1	56.6
24	58.4	58.5	58.6	58.7	58.9	59.2	59.3	59.2	59.3	59.4	59.7	59.8
25	60.5	60.8	60.9	61.0	61.0	61.1	61.3	61.4	61.5	61.6	61.8	61.9
26	62.3	62.2	62.1	62.0	62.0	61.8	61.7	61.5	61.1	60.9	60.8	60.8
27	58.4	58.0	57.6	57.1	56.7	56.3	55.9	55.6	55.0	54.9	54.9	54.9
28	54.7	54.7	54.8	54.7	54.7	54.6	54.5	54.5	54.5	54.6	54.9	55.0
29	55.2	55.3	55.3	55.2	55.2	55.3	55.1	54.9	54.8	54.9	55.0	55.0
30	54.5	54.5	54.2	53.8	53.8	53.8	53.7	53.7	53.7	53.8	53.8	53.6
31	52.3	52.3	52.3	52.3	52.4	52.4	52.4	52.5	52.5	52.6	52.8	52.9
Mean	58.80	58.82	58.80	58.76	58.73	58.71	58.66	58.56	58.46	58.45	58.51	58.54
Corr.	58.64	58.67	58.67	58.64	58.63	58.62	58.59	58.50	58.42	58.42	58.50	58.54
D. f. m.	- 0.03	+ 0.06	+ 0.06	- 0.03	+ 0.02	+ 0.01	- 0.02	- 0.11	- 0.19	- 0.19	- 0.11	- 0.07



1895. MAY.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
64.2	63.9	64.0	64.1	64.1	63.6	63.5	63.7	63.6	63.6	63.6	63.4	64.1	1
57.1	56.5	56.1	55.8	55.2	55.0	54.7	54.2	54.0	54.0	54.0	54.0	57.7	2
53.9	54.1	54.3	54.7	54.8	54.7	54.7	54.8	54.8	54.8	54.8	54.8	54.3	3
57.5	57.9	58.2	58.5	58.7	59.0	59.1	59.8	60.2	60.4	60.5	60.8	57.4	4
63.3	63.6	63.7	63.7	63.8	63.8	64.0	64.1	64.0	64.0	63.9	63.9	63.0	5
61.8	61.9	62.0	62.0	61.8	61.6	61.4	61.0	61.0	61.1	61.0	61.0	62.2	6
60.8	60.7	60.8	61.0	61.3	61.4	61.3	61.2	61.3	61.4	61.6	61.5	61.1	7
60.8	60.7	61.0	61.2	61.6	61.9	61.9	62.1	62.3	62.2	62.4	62.5	61.4	8
65.1	65.1	65.1	65.1	65.4	65.4	65.3	65.4	65.3	65.3	65.4	65.6	64.6	9
66.3	66.2	66.1	66.2	66.2	66.1	66.0	65.8	65.7	65.6	65.5	65.3	66.0	10
63.1	63.0	62.8	62.7	62.7	62.7	62.4	62.2	62.0	61.8	61.5	61.3	63.4	11
59.8	59.4	59.2	59.0	58.6	58.2	57.9	57.7	57.3	57.0	56.7	56.2	59.4	12
52.5	52.4	52.3	52.3	52.4	52.4	52.3	52.3	52.4	52.4	52.5	52.6	53.2	13
56.1	56.8	57.2	57.9	58.2	58.8	59.3	59.7	59.9	60.2	60.5	61.0	56.3	14
65.5	65.9	66.2	66.6	66.8	67.0	67.1	67.4	67.7	68.0	68.1	68.4	65.2	15
68.7	68.7	68.4	68.3	68.2	68.2	67.9	67.8	67.7	67.5	67.4	67.2	68.3	16
64.6	64.5	64.6	64.5	64.0	63.4	62.7	62.1	61.9	61.4	61.0	60.9	64.5	17
56.3	56.2	56.1	56.0	55.8	55.6	55.6	55.8	56.0	56.2	56.3	56.4	57.3	18
58.1	58.2	58.3	58.3	58.2	58.1	58.1	58.1	58.2	58.1	58.1	58.0	57.7	19
54.3	54.0	53.6	53.0	52.8	52.3	52.0	51.9	51.5	51.2	50.9	50.6	54.3	20
44.9	44.6	44.5	44.4	44.3	44.2	44.2	44.3	44.5	44.6	44.7	45.0	46.1	21
49.4	49.7	50.1	50.4	50.7	51.0	51.2	51.5	51.9	52.2	52.4	52.8	49.2	22
56.7	57.1	57.4	57.5	57.5	57.7	57.9	58.0	58.2	58.2	58.3	58.4	56.3	23
59.6	59.5	59.5	59.4	59.7	59.9	60.0	60.5	60.6	60.6	60.5	60.5	59.6	24
62.2	62.4	62.4	62.4	62.6	62.6	62.6	62.4	62.2	62.4	62.5	62.4	61.8	25
60.8	60.7	60.5	60.3	60.0	59.7	59.4	59.1	59.0	59.1	59.0	58.8	60.6	26
54.8	54.8	54.7	54.7	54.7	54.8	54.8	54.7	54.7	54.6	54.6	54.6	55.5	27
55.0	55.0	55.0	55.1	55.3	55.3	55.3	55.2	55.1	55.3	55.2	55.1	54.9	28
55.1	55.0	54.8	54.9	54.9	54.7	54.6	54.7	54.6	54.7	54.8	54.7	54.9	29
53.6	53.4	53.6	53.6	53.7	54.0	54.0	53.8	53.3	53.0	52.7	52.4	53.7	30
53.0	53.3	53.5	53.6	53.7	53.8	53.9	53.9	53.9	53.8	53.8	53.7	53.0	31
58.54	58.55	58.58	58.62	58.64	58.61	58.55	58.55	58.54	58.54	58.52	58.51	58.61	Mean
58.55	58.58	58.62	58.68	58.71	58.70	58.65	58.67	58.67	58.69	58.68	58.69		Corr.
- 0.06	- 0.03	+ 0.01	+ 0.07	+ 0.10	+ 0.09	+ 0.04	+ 0.06	+ 0.06	+ 0.08	+ 0.07	+ 0.08		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1895. JUNE

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	53.5	53.3	53.2	53.0	53.0	53.2	53.7	53.6	53.6	53.8	54.0	54.1
2	56.5	56.9	57.2	57.5	57.5	57.8	57.9	58.0	57.9	58.0	57.7	57.7
3	55.7	55.4	55.0	55.0	55.0	55.0	55.0	54.9	54.8	54.7	54.6	54.5
4	56.0	56.5	56.7	56.9	57.4	57.6	57.8	58.3	58.4	58.8	59.2	59.7
5	60.0	59.6	59.4	58.6	58.2	57.6	57.4	56.3	55.5	54.7	54.0	53.4
6	52.9	52.8	52.6	52.4	52.1	51.8	51.3	50.6	49.6	49.1	48.2	47.5
7	51.5	51.8	52.0	52.3	52.3	52.5	52.7	52.9	53.0	53.5	53.7	54.0
8	57.8	57.8	57.8	58.0	58.1	58.2	58.3	58.3	58.4	58.5	58.6	58.6
9	57.7	57.6	57.7	57.6	57.5	57.3	56.9	56.8	56.8	56.6	56.4	56.3
10	54.9	55.1	55.3	55.2	55.2	55.2	55.3	55.4	55.4	55.6	55.7	55.9
11	57.2	57.2	57.3	57.4	57.4	57.5	57.6	57.7	57.7	57.7	57.8	57.9
12	59.6	59.8	59.8	59.6	59.6	59.7	59.8	59.7	59.4	59.1	59.1	59.2
13	58.6	58.4	58.2	58.0	58.0	57.9	57.8	57.6	57.4	57.2	57.1	56.8
14	53.4	53.2	53.1	52.7	52.6	52.5	52.4	52.5	52.4	52.5	52.7	53.0
15	55.7	56.5	56.8	57.0	57.3	57.7	58.3	58.6	58.7	58.9	59.1	59.5
16	62.7	62.6	62.6	62.5	62.5	62.5	62.5	62.4	62.4	62.4	62.3	62.5
17	63.2	63.4	63.6	63.6	63.8	64.0	64.2	64.1	63.9	63.7	64.3	64.3
18	58.9	57.9	56.7	56.1	55.4	55.1	54.7	54.9	55.1	55.6	56.1	56.8
19	56.3	56.1	55.8	55.8	55.7	55.5	55.3	55.3	55.3	55.1	54.9	55.0
20	55.6	55.7	55.8	56.0	56.1	56.2	56.4	56.5	56.5	56.7	56.7	56.7
21	53.2	52.7	52.2	51.8	51.5	51.1	50.7	50.2	49.9	49.6	49.3	49.2
22	49.5	49.6	49.6	49.6	49.5	49.4	49.5	49.6	49.8	49.9	50.0	50.2
23	50.4	50.1	49.9	49.8	49.6	49.4	49.4	49.4	49.0	49.2	49.3	49.5
24	49.4	49.4	49.5	49.4	49.3	49.4	49.4	49.6	49.9	49.7	49.9	50.2
25	52.7	52.9	52.9	53.1	53.3	53.4	53.5	53.6	53.7	53.6	53.6	53.6
26	55.9	56.0	56.0	56.1	56.1	56.0	56.0	56.1	55.9	55.8	55.7	55.4
27	55.1	55.0	54.8	54.6	54.6	54.4	54.2	53.8	53.6	53.3	53.1	53.2
28	51.7	51.4	51.0	50.8	50.6	50.4	50.2	49.7	49.5	49.1	48.9	48.8
29	47.9	47.8	47.8	48.0	48.2	48.4	48.6	48.9	49.1	49.3	49.6	49.9
30	52.9	53.2	53.6	53.8	54.2	54.6	54.9	55.1	55.4	55.8	56.2	56.7
Mean	55.21	55.19	55.13	55.07	55.05	55.04	55.06	55.01	54.93	54.92	54.93	55.00
Corr.	55.25	55.23	55.17	55.10	55.08	55.06	55.08	55.03	54.94	54.93	54.93	55.00
D. f. m.	+ 0.10	+ 0.08	+ 0.02	- 0.05	- 0.07	- 0.09	- 0.07	- 0.12	- 0.21	- 0.22	- 0.22	- 0.15

1895. JUNE.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
54.2	54.2	54.3	54.5	54.7	54.7	54.8	55.0	55.5	55.7	55.9	56.3	54.2	1
57.6	57.7	57.7	57.7	57.5	57.4	57.1	57.0	56.8	56.5	56.1	55.9	57.3	2
54.5	54.5	54.3	54.1	54.1	54.1	54.1	54.5	54.7	55.0	55.4	55.7	54.8	3
60.0	60.4	60.4	60.9	61.0	61.1	61.1	61.0	60.8	60.7	60.5	60.2	59.2	4
52.5	52.2	52.1	52.1	52.2	52.4	52.5	52.8	52.9	52.9	52.9	52.9	54.8	5
46.8	46.8	46.8	47.0	47.6	48.1	48.7	49.3	49.7	50.2	50.5	51.0	49.7	6
54.4	54.9	55.5	56.0	56.3	56.6	56.8	56.8	57.0	57.1	57.3	57.5	54.5	7
58.7	58.8	58.8	58.7	58.6	58.6	58.5	58.2	58.0	57.8	57.6	57.7	58.3	8
56.2	56.0	55.9	55.6	55.5	55.4	55.2	55.1	54.9	54.8	54.7	54.8	56.2	9
56.3	56.3	56.4	56.7	56.7	56.8	56.9	56.9	56.9	57.0	57.0	57.1	56.1	10
58.2	58.6	59.0	59.2	59.5	59.5	59.5	59.4	59.4	59.5	59.5	59.6	58.4	11
59.0	58.9	58.7	58.5	58.6	58.7	58.7	58.7	58.8	58.7	58.7	58.6	59.1	12
56.5	56.4	56.2	56.0	55.4	55.4	55.3	55.1	54.6	54.1	53.9	53.6	56.5	13
53.1	53.2	53.4	53.6	53.9	54.3	54.3	54.6	54.9	55.1	55.6	55.8	53.5	14
60.1	60.4	60.6	61.1	61.6	61.9	62.5	62.6	62.7	62.6	62.4	62.6	59.8	15
62.4	62.5	62.7	62.8	62.8	62.8	62.8	62.7	62.7	62.7	62.7	63.0	62.6	16
64.5	64.5	64.4	64.4	64.4	64.1	63.5	63.0	62.5	61.7	61.1	60.0	63.5	17
57.3	57.6	57.9	58.1	57.9	57.9	57.9	57.5	57.2	56.9	56.7	56.4	56.8	18
55.1	54.9	54.7	54.9	54.8	54.5	54.3	54.5	54.8	54.8	55.1	55.4	55.2	19
56.8	56.8	56.5	56.4	56.2	55.8	55.3	54.9	54.7	54.1	53.7	53.5	55.8	20
49.0	48.9	48.9	48.9	48.8	48.6	48.5	48.6	48.6	48.8	49.1	49.2	49.9	21
50.4	50.6	50.8	50.9	51.1	51.2	51.3	51.3	51.3	51.2	51.0	50.8	50.3	22
49.6	49.9	50.1	50.3	50.4	50.3	50.3	50.2	50.0	49.8	49.7	49.5	49.8	23
50.5	50.8	51.2	51.4	51.8	52.0	52.1	52.4	52.5	52.5	52.5	52.5	50.7	24
53.7	53.8	53.9	54.1	54.4	54.5	54.8	55.4	55.3	55.4	55.5	55.7	54.0	25
55.1	55.0	54.9	54.9	54.8	54.9	55.0	55.0	55.1	55.1	55.1	55.1	55.5	26
53.1	53.1	53.2	53.2	52.9	53.1	53.1	52.8	52.7	52.5	52.2	52.0	53.5	27
48.7	48.6	48.5	48.5	48.7	48.7	48.4	48.3	48.2	48.0	47.9	47.8	49.3	28
50.1	50.1	50.2	50.3	50.6	50.7	50.7	50.8	51.2	51.4	51.7	52.3	49.7	29
56.8	57.0	57.2	57.1	57.1	56.8	56.7	56.5	56.5	56.5	56.5	56.5	55.7	30
55.04	55.11	55.17	55.26	55.33	55.36	55.36	55.36	55.36	55.30	55.28	55.30	55.15	Mean
55.04	55.10	55.16	55.24	55.31	55.34	55.33	55.33	55.32	55.26	55.24	55.25		Corr.
- 0.11	- 0.05	+ 0.01	+ 0.09	+ 0.16	+ 0.19	+ 0.18	+ 0.18	+ 0.17	+ 0.11	+ 0.09	+ 0.10		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1895. JULY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	56.8	56.8	56.7	56.6	56.6	56.4	55.9	55.7	55.2	55.0	55.7	56.0
2	57.3	57.6	57.8	58.0	58.0	58.2	58.3	58.4	58.6	58.7	58.9	59.1
3	58.5	58.5	58.3	58.0	57.7	57.4	56.7	56.3	55.5	55.6	54.9	54.6
4	54.7	54.8	54.9	55.2	55.4	55.8	56.2	56.5	56.6	56.8	57.1	57.3
5	60.8	61.1	61.4	61.5	61.6	61.7	61.8	61.9	62.0	62.0	62.1	62.1
6	60.3	59.9	59.5	58.9	58.4	58.0	57.5	57.0	56.5	56.7	54.8	54.4
7	50.3	50.4	50.5	50.5	50.7	50.8	51.2	51.7	52.1	52.6	53.1	53.3
8	55.2	55.1	55.0	54.9	54.8	54.5	54.2	54.0	53.8	53.3	53.0	53.0
9	52.2	52.2	52.0	51.8	51.7	51.8	51.8	52.0	52.0	52.1	52.1	52.2
10	56.4	56.9	57.3	57.7	58.0	58.4	58.7	58.9	59.1	59.3	59.5	59.8
11	60.4	60.0	59.5	59.1	59.1	59.0	58.9	58.9	59.0	59.1	59.2	59.1
12	59.8	60.0	60.1	59.9	59.8	59.7	59.6	59.4	59.2	59.1	59.0	58.9
13	57.9	57.8	57.7	57.5	57.5	57.3	57.1	56.9	56.9	56.9	56.9	57.0
14	55.6	55.4	55.3	55.1	55.0	54.6	54.3	53.9	53.7	53.5	53.3	53.0
15	50.5	50.5	50.4	50.3	50.1	49.9	49.6	49.5	49.3	49.2	49.3	49.2
16	48.6	48.6	48.5	48.6	48.6	48.6	48.6	48.9	49.2	49.3	49.6	49.8
17	54.1	54.3	54.5	54.7	54.9	55.1	55.2	55.4	55.6	55.7	55.8	55.9
18	57.2	57.2	57.2	57.2	57.4	57.5	57.5	57.5	57.6	57.7	57.9	57.9
19	58.6	58.6	58.7	58.7	58.7	58.6	58.5	58.3	58.2	58.2	58.1	57.9
20	58.4	58.4	58.4	58.4	58.3	58.3	58.3	58.2	58.1	57.9	58.0	58.2
21	58.2	58.2	58.1	58.1	58.0	57.9	57.9	57.9	57.7	57.6	57.5	57.5
22	57.2	57.1	56.9	56.7	56.7	56.4	56.2	56.0	55.7	55.5	55.0	54.9
23	52.9	52.9	52.9	52.7	52.6	52.5	52.4	52.4	52.4	52.5	52.6	52.6
24	52.8	53.2	53.7	54.1	54.4	54.8	55.2	55.3	55.4	55.7	55.9	56.0
25	56.0	55.8	55.5	55.1	54.9	54.7	54.3	54.0	53.9	53.6	53.4	53.3
26	52.4	52.4	52.3	52.2	52.1	51.8	51.7	51.4	51.2	50.8	50.5	50.1
27	46.0	46.0	46.1	46.6	47.3	48.0	48.4	49.0	49.3	49.5	50.0	50.2
28	50.3	50.2	50.2	49.8	49.8	49.5	49.2	49.1	48.8	48.7	48.8	48.9
29	50.9	50.9	50.9	50.8	50.7	50.2	49.8	49.3	48.4	48.2	48.0	46.9
30	31.0	29.3	28.1	27.8	27.3	27.4	27.4	27.4	27.7	28.2	29.3	30.9
31	44.5	45.1	45.8	46.1	47.0	47.5	48.0	48.6	49.0	49.7	50.5	51.2
Mean	54.06	54.04	54.01	53.95	53.97	53.94	53.88	53.86	53.80	53.83	53.86	53.91
Corr.												
D. f. m.	0.00	- 0.02	- 0.05	- 0.11	- 0.09	- 0.12	- 0.18	- 0.20	- 0.26	- 0.23	- 0.20	- 0.15

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL. }

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
56.1	56.3	56.4	56.5	56.6	56.5	56.5	56.6	56.6	56.7	56.8	57.0	56.3	1
59.3	59.5	59.7	59.8	59.8	59.7	59.7	59.5	59.4	59.3	58.8	58.8	58.8	2
54.3	54.1	54.0	53.8	53.7	53.5	53.4	53.4	53.5	53.7	53.8	54.1	55.3	3
57.6	58.0	58.6	58.7	59.0	59.1	59.3	59.4	59.5	59.8	60.2	60.5	57.5	4
62.2	62.2	62.2	62.2	62.1	61.9	61.7	61.4	61.2	61.0	60.5	60.5	61.6	5
53.7	53.3	52.8	52.2	51.9	51.6	51.2	51.0	50.7	50.5	50.3	50.3	54.6	6
53.9	54.3	54.6	54.9	55.0	55.1	55.1	55.2	55.5	55.4	55.3	55.3	53.2	7
53.1	53.6	53.8	54.0	54.2	54.0	53.5	53.3	53.2	52.9	52.6	52.5	53.8	8
52.4	52.8	53.6	54.0	54.5	54.7	54.9	55.2	55.5	55.6	55.7	56.1	53.3	9
59.9	60.0	60.5	60.7	60.7	60.6	60.6	60.7	60.8	60.7	60.6	60.6	59.4	10
59.3	59.3	59.5	59.5	59.5	59.7	59.7	59.8	59.9	59.8	59.8	59.9	59.5	11
58.9	58.8	58.7	58.7	58.6	58.5	58.3	58.2	58.1	58.0	57.8	57.9	59.0	12
56.8	56.8	56.9	56.9	56.8	56.7	56.3	56.2	56.0	56.0	55.9	55.7	56.8	13
52.8	52.6	52.5	52.3	51.9	51.8	51.7	51.6	51.4	51.1	50.8	50.7	53.1	14
49.0	49.1	49.1	49.0	48.9	48.8	48.8	48.7	48.6	48.5	48.5	48.5	49.3	15
50.2	50.5	50.9	51.3	51.8	52.1	52.5	52.9	53.2	53.3	53.5	53.6	50.1	16
56.0	56.1	56.9	56.9	56.9	57.0	57.0	56.8	57.0	57.0	57.0	57.1	55.9	17
57.9	57.8	57.9	58.0	58.1	58.3	58.5	58.5	58.5	58.5	58.5	58.5	57.9	18
58.1	58.1	58.1	58.4	58.6	58.6	58.6	58.6	58.6	58.4	58.4	58.4	58.4	19
58.3	58.4	58.5	58.6	58.6	58.6	58.7	58.8	58.7	58.4	58.3	58.2	58.4	20
57.5	57.6	57.7	57.6	57.6	57.7	57.7	57.6	57.4	57.3	57.1	57.1	57.7	21
54.6	54.4	54.1	53.9	53.6	53.4	53.2	53.1	53.0	52.8	52.8	52.8	54.8	22
52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.3	52.2	52.2	52.2	52.4	52.5	23
56.2	56.6	56.9	57.0	57.1	57.0	56.9	56.7	56.7	56.4	56.3	56.1	55.7	24
53.1	53.2	53.3	53.3	53.3	53.1	53.0	52.8	52.7	52.5	52.4	52.4	53.7	25
49.9	49.8	49.7	49.6	49.2	49.0	48.4	48.1	47.6	47.2	46.7	46.2	50.0	26
50.5	50.6	50.8	51.3	51.3	51.4	51.4	51.2	50.9	50.6	50.4	50.3	49.5	27
49.1	49.4	49.5	49.6	49.8	50.0	50.3	50.3	50.4	50.5	50.7	50.9	49.7	28
45.8	45.2	44.6	43.8	42.6	42.0	40.1	39.4	37.8	35.8	33.7	31.9	44.9	29
32.6	33.6	35.2	37.4	38.1	38.6	39.3	40.2	41.1	41.7	42.8	43.4	33.5	30
51.5	52.1	52.7	53.1	53.4	53.7	54.3	54.9	55.5	55.6	56.1	56.4	50.9	31
53.97	54.08	54.26	54.37	54.38	54.36	54.29	54.26	54.23	54.10	54.01	54.00	54.06	Mean
- 0.09	+ 0.02	+ 0.20	+ 0.31	+ 0.32	+ 0.30	+ 0.23	+ 0.20	+ 0.17	+ 0.04	- 0.05	- 0.06		Corr.
													D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1895. AUGUST.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	56.8	57.2	57.5	57.8	58.0	58.3	58.7	58.7	58.9	59.2	59.4	59.7
2	65.7	66.2	66.3	66.5	66.6	66.7	66.7	66.8	66.8	67.0	67.2	67.3
3	69.1	69.2	69.2	69.0	69.2	69.2	69.1	69.2	69.4	69.1	69.2	69.2
4	68.7	68.6	68.5	68.4	68.0	67.9	67.8	67.7	67.5	67.2	67.0	66.8
5	66.0	66.0	66.2	66.4	66.5	66.5	66.5	66.7	66.9	67.0	67.2	67.4
6	68.6	68.5	68.7	68.8	68.8	68.8	68.8	68.8	68.7	68.8	68.5	68.6
7	68.6	68.6	68.5	68.4	68.5	68.2	68.0	67.8	67.6	67.6	67.8	67.7
8	66.8	66.8	66.6	66.4	66.3	66.2	65.7	65.7	65.5	65.3	65.2	65.2
9	63.4	63.1	63.1	62.9	63.0	63.1	63.2	63.2	63.5	63.9	64.1	64.3
10	66.1	66.2	66.2	66.3	66.3	66.3	66.2	66.2	66.1	66.0	66.0	66.1
11	67.8	68.2	68.3	68.2	68.4	68.4	68.5	68.6	68.6	68.7	68.8	68.8
12	70.4	70.5	70.6	70.7	70.8	70.8	70.6	70.6	70.7	70.7	70.8	70.9
13	71.8	72.0	72.1	72.3	72.3	72.2	72.1	72.3	72.4	72.4	72.5	72.6
14	73.4	73.7	73.8	73.8	73.8	73.7	73.6	73.4	73.6	73.4	73.6	73.8
15	73.9	74.0	74.1	74.2	73.9	73.7	73.4	73.1	72.8	72.8	72.7	72.5
16	71.5	71.4	71.2	70.8	70.8	70.6	70.4	69.9	69.7	69.5	69.2	69.0
17	65.8	65.6	65.2	64.9	64.4	64.1	63.6	63.2	62.7	62.4	62.1	61.8
18	55.3	54.5	53.9	53.0	52.3	51.8	51.4	50.8	50.2	49.7	49.2	49.0
19	44.2	43.9	43.7	43.7	43.8	43.8	44.1	44.2	44.5	44.7	44.8	45.3
20	48.5	48.3	48.0	47.7	47.6	47.2	46.6	46.0	45.2	44.7	44.6	44.6
21	44.1	43.9	43.8	43.5	43.2	42.8	42.7	42.7	42.4	42.5	42.6	42.7
22	47.2	47.4	47.5	47.6	47.8	48.0	48.2	48.4	48.5	48.7	48.9	49.1
23	51.1	51.4	51.6	51.9	51.9	52.0	52.1	52.2	52.3	52.3	52.6	52.8
24	55.4	55.9	56.2	56.4	56.7	56.9	57.5	58.1	58.9	59.2	60.3	60.6
25	62.3	62.2	62.0	61.9	61.7	61.8	61.8	62.0	62.0	62.1	62.2	62.2
26	61.3	61.0	60.7	60.3	59.8	59.5	59.2	58.5	58.2	58.1	57.9	57.7
27	56.1	56.2	56.2	56.2	56.2	56.3	56.2	56.2	56.1	56.1	56.1	56.1
28	56.6	56.6	56.6	56.7	56.7	56.8	56.9	57.0	57.3	57.4	57.5	57.8
29	59.9	59.8	59.7	59.6	59.4	59.5	59.4	59.3	58.8	58.8	58.8	58.8
30	56.8	56.5	56.4	56.2	56.1	55.9	55.7	55.7	55.7	55.8	56.0	56.2
31	56.9	56.8	56.8	56.5	56.5	56.6	56.4	56.4	56.0	55.7	55.3	55.2
Mean	61.62	61.62	61.59	61.52	61.46	61.41	61.33	61.28	61.21	61.19	61.23	61.28
Corr.	61.50	61.51	61.49	61.44	61.39	61.35	61.28	61.24	61.18	61.17	61.22	61.28
D. f. m.	+ 0.13	+ 0.14	+ 0.12	+ 0.07	+ 0.02	- 0.02	- 0.09	- 0.13	- 0.19	- 0.20	- 0.15	- 0.09

1895. AUGUST.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
60.0	60.5	61.1	61.5	61.8	62.5	62.1	63.7	64.0	64.4	64.8	65.3	60.5	1
67.3	67.5	67.7	67.9	68.0	68.2	68.3	68.4	68.6	68.8	68.9	69.0	67.4	2
69.2	69.2	69.1	69.2	69.2	69.2	69.2	69.2	69.0	69.0	69.0	68.9	69.1	3
66.5	66.4	66.1	66.0	66.0	65.8	65.6	65.8	65.6	65.6	65.6	65.8	66.9	4
67.3	67.5	67.7	67.8	67.9	68.0	68.3	68.3	68.3	68.4	68.5	68.5	67.3	5
68.6	68.5	68.6	68.6	68.5	68.5	68.5	68.6	68.7	68.7	68.7	68.7	68.6	6
67.7	67.6	67.6	67.6	67.5	67.4	67.3	67.2	67.2	67.1	67.0	66.9	67.7	7
65.1	65.0	65.3	65.0	64.9	64.6	64.3	64.2	63.7	63.7	63.6	63.4	65.2	8
64.8	65.4	66.2	66.7	66.5	66.3	66.4	66.1	66.1	66.0	66.0	66.0	64.7	9
66.1	66.0	66.4	66.5	66.7	66.8	67.0	67.1	67.2	67.4	67.5	67.7	66.5	10
69.0	69.1	69.2	69.3	69.5	69.6	69.7	69.8	69.8	69.7	69.8	70.0	69.0	11
71.0	71.1	71.2	71.2	71.3	71.4	71.5	71.6	71.6	71.5	71.5	71.6	71.0	12
72.7	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.2	73.3	73.3	73.3	72.7	13
73.8	74.0	74.0	74.0	74.1	74.0	74.0	73.9	73.9	73.7	73.6	73.7	73.8	14
72.5	72.5	72.6	72.7	72.7	72.6	72.3	72.3	72.0	71.9	71.8	71.6	72.9	15
68.9	68.6	68.2	67.9	67.9	67.6	67.3	67.1	66.9	66.6	66.3	66.0	68.9	16
61.4	60.4	59.8	59.4	58.9	58.7	58.1	57.4	56.8	56.3	55.7	55.0	61.0	17
48.5	48.1	47.9	47.5	47.2	46.9	46.4	46.1	45.8	45.4	45.1	44.6	49.2	18
45.6	46.2	47.0	47.2	47.2	47.5	47.8	48.1	48.3	48.5	48.6	48.7	45.9	19
44.6	44.5	44.4	44.8	44.4	44.2	44.2	44.2	44.2	44.2	44.2	44.2	45.5	20
42.8	42.9	42.8	42.9	43.3	44.4	45.0	45.6	46.1	46.3	46.7	47.0	43.9	21
49.1	49.3	49.6	49.7	50.2	50.8	50.5	50.7	50.6	50.7	50.9	50.8	49.2	22
53.2	53.4	53.6	53.6	53.6	53.5	53.4	53.4	53.4	53.6	53.7	54.5	52.8	23
61.2	61.6	61.9	62.1	62.3	62.4	62.5	62.5	62.5	62.5	62.4	62.4	59.9	24
62.4	62.6	62.8	62.9	62.8	62.8	62.6	62.5	62.3	62.0	61.8	61.6	62.2	25
57.5	57.1	56.8	56.5	56.4	56.4	56.3	56.3	56.0	55.9	56.0	56.0	57.9	26
56.1	56.2	56.3	56.3	56.2	56.3	56.3	56.2	56.3	56.4	56.5	56.4	56.2	27
57.9	58.2	58.5	58.7	58.8	59.1	59.4	59.5	59.6	59.7	59.8	59.9	58.1	28
58.5	58.3	58.2	58.1	57.9	58.0	57.9	57.6	57.5	57.3	57.0	56.9	58.5	29
56.3	56.4	56.5	56.6	56.7	56.7	56.7	56.7	56.7	56.8	56.8	56.9	56.4	30
54.3	53.9	53.4	53.0	52.1	51.3	50.3	49.9	49.1	48.7	48.4	48.5	53.7	31
61.29	61.33	61.41	61.44	61.41	61.45	61.37	61.40	61.32	61.29	61.24	61.22	61.37	Mean
61.30	61.35	61.44	61.48	61.46	61.51	61.44	61.48	61.42	61.40	61.36	61.35		Corr.
- 0.07	- 0.02	+ 0.07	+ 0.11	+ 0.09	+ 0.14	+ 0.07	+ 0.11	+ 0.05	+ 0.03	+ 0.01	+ 0.02		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1895. SEPTEMBER

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	48.5	48.6	48.6	48.6	48.7	48.6	48.5	48.3	47.4	46.4	45.8	45.1
2	50.7	51.8	53.3	54.2	55.5	56.3	57.4	58.3	59.1	59.4	59.6	59.9
3	60.4	60.2	59.9	59.6	59.2	59.0	58.4	58.0	57.1	56.1	55.3	54.5
4	50.0	50.3	50.5	50.8	50.9	51.1	51.3	51.6	51.8	51.8	51.8	51.9
5	50.5	50.9	51.0	51.0	51.0	51.2	51.3	51.2	51.3	51.4	51.5	51.5
6	51.8	51.8	51.9	51.7	51.8	51.7	51.7	51.6	51.3	51.3	51.3	51.0
7	52.6	52.8	53.0	53.4	53.9	54.3	54.6	54.9	55.3	55.6	56.1	56.5
8	60.3	60.6	61.2	61.2	61.8	62.1	62.3	62.3	62.5	62.5	62.6	63.0
9	64.0	64.0	64.0	63.9	64.2	64.4	64.5	64.5	64.6	64.6	64.7	64.8
10	65.0	65.0	65.0	65.1	65.1	65.0	65.0	64.9	64.8	64.8	64.9	64.9
11	65.9	66.0	66.0	66.0	66.0	65.8	65.6	65.7	65.5	65.3	65.1	65.0
12	62.3	62.1	61.9	61.4	60.8	60.6	59.8	59.3	58.9	58.6	58.0	57.5
13	48.7	48.3	47.7	47.4	46.8	46.7	46.4	46.0	45.8	45.7	45.6	45.6
14	45.9	46.0	46.2	46.5	46.6	46.8	47.0	47.0	47.1	47.3	47.6	47.6
15	47.9	48.2	48.8	49.0	49.4	49.8	49.9	49.8	49.7	49.8	49.9	49.8
16	43.8	43.1	42.8	42.4	41.9	41.4	40.9	40.3	39.8	39.6	39.4	39.3
17	38.9	39.1	38.9	38.8	38.5	38.7	39.0	39.5	39.6	39.8	40.0	40.1
18	38.6	38.7	38.9	39.1	39.9	39.5	39.7	40.1	40.3	40.7	41.3	41.9
19	46.4	46.5	46.5	46.5	46.4	46.3	46.0	45.8	45.8	45.8	45.9	46.3
20	49.7	50.0	50.3	50.5	50.9	51.3	51.8	52.3	52.3	52.6	52.9	53.3
21	56.0	56.1	56.2	56.3	56.3	56.5	56.7	56.6	56.6	56.7	56.9	56.9
22	56.7	56.8	57.0	57.1	57.4	57.4	57.4	57.5	57.5	57.6	57.7	57.8
23	57.3	57.0	56.8	56.6	56.3	56.1	55.8	55.4	55.1	54.6	54.3	54.1
24	53.7	53.8	53.9	54.0	54.3	54.5	54.7	54.7	54.7	55.0	55.4	55.8
25	59.8	60.0	60.1	60.5	60.5	60.6	60.8	60.8	60.9	61.1	61.4	61.3
26	61.7	61.9	62.1	62.0	62.1	62.0	61.8	61.9	62.0	62.0	61.9	61.9
27	59.9	59.7	59.5	59.4	59.3	59.2	58.9	58.3	57.9	57.7	57.5	57.3
28	53.8	53.6	53.3	53.2	53.1	53.0	52.9	52.9	52.7	52.9	53.1	53.2
29	52.8	52.6	52.3	52.3	52.4	52.4	52.3	52.3	52.3	52.3	52.4	52.3
30	53.5	53.6	53.7	53.7	53.8	53.9	54.0	54.2	54.3	54.4	54.7	55.1
Mean	53.57	53.64	53.71	53.74	53.81	53.87	53.88	53.87	53.80	53.78	53.82	53.84
Corr.	53.68	53.74	53.80	53.82	53.88	53.93	53.93	53.91	53.83	53.80	53.83	53.84
D. f. m.	- 0.12	- 0.06	0.00	+ 0.02	+ 0.08	+ 0.13	+ 0.13	+ 0.11	+ 0.03	0.00	+ 0.03	+ 0.04



1895. SEPTEMBER.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
44.8	44.7	45.0	45.0	45.3	45.5	45.6	46.0	46.8	47.4	48.3	49.5	46.9	1
60.7	61.1	61.3	61.3	61.6	61.6	61.7	61.7	61.5	61.3	60.8	60.8	58.8	2
53.6	53.1	52.1	51.4	50.9	50.4	50.0	49.8	49.6	49.6	49.7	49.9	54.5	3
51.8	51.9	51.9	51.6	51.2	50.9	50.8	50.5	50.3	50.3	50.3	50.3	51.1	4
51.5	51.3	51.3	51.2	51.0	51.1	51.1	51.2	51.4	51.4	51.6	51.9	51.2	5
51.0	50.9	50.8	50.7	50.5	50.3	50.3	50.5	50.7	51.2	51.7	52.2	51.2	6
56.7	57.2	57.3	57.6	58.0	58.1	58.3	58.5	59.0	59.3	59.6	60.0	56.4	7
63.2	63.5	63.8	63.9	63.9	63.8	64.1	64.1	64.0	64.2	64.2	64.2	62.9	8
64.9	65.0	65.3	65.3	65.2	65.1	65.2	65.2	65.3	65.2	65.2	65.1	64.8	9
65.1	65.3	65.5	65.6	65.6	65.6	65.6	65.5	65.6	65.7	65.8	65.8	65.3	10
65.0	65.0	65.0	64.9	64.5	64.3	64.2	63.9	63.8	63.3	63.1	62.8	64.9	11
57.0	56.3	55.6	54.9	54.3	53.6	52.8	51.9	51.3	50.5	49.9	48.9	56.6	12
45.5	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.7	45.7	45.7	45.8	46.2	13
47.6	47.5	47.5	47.4	47.2	47.1	46.9	46.9	46.9	47.0	47.1	47.4	47.0	14
49.6	49.5	49.3	49.0	48.2	48.0	47.2	46.9	46.1	45.6	45.0	44.3	48.4	15
39.2	39.1	39.0	38.9	38.6	38.5	38.5	38.6	38.5	38.6	38.6	38.7	40.0	16
40.1	40.1	40.0	39.9	39.7	39.5	39.3	39.1	38.9	38.9	38.8	38.6	39.3	17
42.4	42.9	43.4	43.8	44.3	44.4	44.9	45.3	45.5	45.7	46.0	46.3	42.2	18
46.6	46.5	46.7	47.0	47.3	47.5	47.7	47.9	48.4	48.7	49.0	49.5	46.9	19
53.4	53.8	54.4	54.7	55.2	55.3	55.4	55.4	55.5	55.6	55.8	56.0	53.3	20
56.7	56.7	56.8	56.8	56.9	56.7	56.6	56.6	56.5	56.5	56.5	56.6	56.6	21
57.9	57.8	57.9	58.1	58.2	58.2	58.0	58.0	57.9	57.8	57.7	57.5	57.6	22
53.9	53.9	53.8	54.1	54.2	54.2	54.0	53.9	53.7	53.8	53.8	53.7	54.8	23
55.9	56.4	56.8	57.4	57.8	58.0	58.1	58.6	58.7	59.2	59.5	59.6	56.3	24
61.5	61.5	61.6	61.7	62.0	61.9	61.7	61.6	61.4	61.5	61.6	61.5	61.1	25
61.7	61.7	61.8	61.6	61.3	61.2	61.1	60.8	60.7	60.5	60.2	60.1	61.5	26
57.4	57.0	56.8	56.6	56.0	55.8	55.7	55.4	55.0	54.8	54.7	54.2	57.2	27
53.3	53.3	53.2	53.2	53.2	53.3	53.3	53.2	53.1	52.9	52.8	52.8	53.1	28
52.5	52.7	53.0	53.1	53.2	53.2	53.2	53.3	53.3	53.3	53.3	53.4	52.8	29
55.3	55.5	55.6	55.7	55.9	56.0	56.0	56.1	56.1	56.0	55.9	55.8	54.9	30
53.86	53.89	53.94	53.93	53.89	53.82	53.76	53.73	53.71	53.72	53.74	53.77	53.80	Mean
53.85	53.87	53.91	53.89	53.84	53.76	53.69	53.65	53.62	53.62	53.63	53.65		Corr.
+ 0.05	+ 0.07	+ 0.11	+ 0.09	+ 0.04	- 0.04	- 0.11	- 0.15	- 0.18	- 0.18	- 0.17	- 0.15		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1895. OCTOBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	55.9	55.9	55.8	55.7	55.6	55.6	55.7	55.5	55.3	55.4	55.6	55.7
2	56.8	57.0	57.1	57.2	57.2	57.3	57.3	57.1	57.2	57.1	57.1	57.1
3	54.4	54.1	53.8	53.7	53.6	53.8	54.1	54.2	54.3	54.4	54.5	54.8
4	61.5	62.0	62.4	62.8	63.3	63.7	64.1	64.6	65.0	65.2	65.6	65.7
5	68.0	68.1	68.3	68.5	68.6	68.6	68.7	68.6	68.6	68.7	69.0	69.2
6	65.9	65.3	64.7	64.6	64.0	63.7	63.4	62.9	62.5	62.3	62.1	62.0
7	62.2	62.4	63.0	63.3	63.9	64.3	64.6	65.2	65.2	65.5	66.8	66.5
8	70.5	70.7	70.9	71.0	70.8	70.8	70.7	70.6	70.3	70.2	70.4	70.3
9	70.6	70.8	70.9	70.9	70.9	70.8	70.8	70.7	70.5	70.5	70.5	70.2
10	69.8	69.8	69.9	69.8	69.5	69.4	69.4	69.4	69.2	69.3	69.4	69.5
11	69.3	69.2	69.2	69.1	69.2	69.1	69.1	68.9	68.9	68.8	68.7	68.8
12	67.9	68.0	68.2	68.2	68.4	68.5	68.9	69.2	69.2	69.3	69.2	69.4
13	70.2	70.2	70.3	70.3	70.2	70.2	70.2	70.0	69.7	69.7	69.7	69.8
14	70.5	70.2	70.0	69.7	69.9	69.9	69.9	70.0	69.9	69.6	70.4	70.4
15	69.2	69.3	69.4	69.3	69.1	68.8	68.7	68.4	68.4	68.1	68.0	68.1
16	69.3	69.4	69.4	69.4	69.4	69.3	69.1	69.1	68.9	68.7	68.6	68.6
17	66.4	66.1	65.9	65.7	65.6	65.5	65.4	65.3	64.9	64.8	64.7	64.6
18	65.4	65.4	65.4	65.5	65.6	65.6	65.7	65.8	66.0	66.0	66.1	66.2
19	67.9	68.0	68.2	68.2	68.4	68.4	68.6	68.7	68.7	68.7	68.7	68.8
20	69.1	69.1	69.0	69.2	69.0	69.0	69.0	69.1	69.0	69.2	69.4	69.5
21	69.3	69.3	69.4	69.1	69.3	69.2	69.0	69.0	68.9	68.5	69.4	69.4
22	68.1	67.9	67.4	67.1	66.9	66.6	66.4	65.9	65.4	64.9	64.6	64.3
23	65.2	65.5	65.9	66.5	66.9	67.3	67.7	67.9	68.4	68.7	69.1	69.5
24	71.5	71.8	72.2	72.4	72.4	72.4	72.2	72.3	72.2	72.1	72.3	72.7
25	74.5	74.7	74.8	75.1	75.3	75.5	75.7	76.0	76.0	76.2	76.2	76.5
26	78.3	78.4	78.6	78.5	78.4	78.4	78.5	78.4	78.2	78.1	78.2	78.3
27	78.6	78.7	78.8	78.7	78.8	78.7	78.6	78.5	78.3	78.0	77.9	77.6
28	71.4	71.0	70.1	69.5	69.1	68.0	67.0	66.6	65.5	64.8	64.2	63.7
29	51.3	50.6	49.9	49.4	48.5	48.2	47.7	47.2	46.9	46.6	46.3	45.9
30	44.8	44.8	44.9	44.7	44.7	44.6	44.5	44.1	44.0	43.9	43.8	43.7
31	41.7	41.5	41.4	41.1	41.0	41.0	40.9	40.9	40.9	40.9	40.9	40.9
Mean	65.66	65.65	65.65	65.62	65.60	65.55	65.54	65.49	65.37	65.29	65.40	65.41
Corr.	65.47	65.48	65.50	65.48	65.48	65.45	65.45	65.42	65.32	65.26	65.38	65.41
D. f. m.	- 0.01	0.00	+ 0.02	0.00	0.00	- 0.03	- 0.03	- 0.06	- 0.16	- 0.22	- 0.10	- 0.07

1895. OCTOBER.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
55.8	55.9	56.1	56.3	56.3	56.4	56.5	56.3	56.3	56.4	56.5	56.6	56.0	1
57.1	57.0	56.9	56.7	56.4	56.3	56.2	55.9	55.6	55.2	54.9	54.6	56.6	2
55.0	55.5	56.1	56.4	57.0	57.4	58.1	58.6	59.0	59.7	60.3	60.7	56.0	3
66.0	66.2	66.5	66.6	66.8	67.1	67.3	67.6	67.8	67.9	68.0	68.0	65.5	4
69.1	69.2	69.5	69.5	69.6	69.2	68.7	68.7	68.3	67.7	67.1	66.4	68.6	5
61.9	61.9	62.0	62.1	62.0	61.8	61.5	61.5	61.4	61.5	61.6	61.8	62.7	6
67.0	67.1	67.5	68.4	68.6	69.0	69.5	69.8	70.1	70.4	70.6	70.5	66.7	7
70.3	70.4	70.4	70.4	70.5	70.6	70.5	70.4	70.4	70.5	70.5	70.5	70.5	8
70.3	70.6	70.9	71.2	71.0	70.9	70.3	70.1	69.8	69.6	69.6	69.7	70.5	9
69.8	69.7	69.7	69.7	69.7	69.6	69.7	69.6	69.4	69.4	69.3	69.3	69.6	10
68.8	68.8	68.7	68.4	68.3	68.2	68.0	68.0	68.3	68.2	68.0	68.1	68.7	11
69.4	69.7	69.9	70.1	70.0	70.1	70.2	70.3	70.4	70.3	70.2	70.1	69.4	12
69.9	70.1	70.3	70.3	70.4	70.4	70.4	70.5	70.5	70.6	70.6	70.6	70.2	13
70.3	70.2	70.1	70.0	70.0	70.0	69.8	69.5	69.5	69.3	69.1	69.1	69.9	14
68.1	68.1	68.0	68.2	68.2	68.2	68.2	68.2	68.2	68.4	68.6	68.8	68.5	15
68.7	68.5	68.2	68.1	68.1	67.9	67.4	67.2	67.0	66.9	66.8	66.6	68.4	16
64.5	64.8	64.7	64.6	64.6	64.5	64.6	64.6	64.8	64.8	64.9	65.1	65.1	17
66.5	66.6	66.7	66.9	67.0	67.0	67.1	67.2	67.6	67.6	67.7	67.8	66.4	18
69.0	69.1	69.2	69.2	69.2	69.2	69.1	69.0	69.0	69.0	69.1	69.0	68.8	19
69.6	69.5	69.5	69.4	69.6	69.3	69.3	69.4	69.5	69.5	69.4	69.3	69.3	20
69.6	69.5	69.5	69.4	69.4	69.2	69.0	69.0	68.8	68.6	68.5	68.3	69.1	21
64.1	64.1	64.2	64.3	64.1	63.8	63.7	63.6	64.0	64.4	64.7	64.9	65.2	22
69.9	70.0	70.0	70.5	70.8	71.0	71.0	71.1	71.4	71.4	71.4	71.5	69.1	23
73.0	73.0	73.0	73.4	73.6	73.7	73.8	73.8	73.8	74.0	74.2	74.3	72.9	24
76.7	77.0	77.5	77.6	78.0	78.1	77.9	78.1	78.2	78.3	78.3	78.3	76.7	25
78.5	78.5	78.4	78.4	78.5	78.5	78.5	78.5	78.4	78.5	78.6	78.6	78.4	26
77.1	76.8	76.6	76.1	75.4	75.0	74.6	74.3	73.6	73.2	72.7	72.1	76.6	27
63.1	62.2	61.3	60.4	59.5	58.5	57.6	56.6	55.5	54.7	53.5	52.2	62.7	28
45.7	45.5	45.3	45.2	45.0	44.9	44.9	44.7	44.7	44.6	44.6	44.6	46.6	29
43.5	43.3	43.2	43.0	42.7	42.5	42.2	42.1	42.1	41.9	41.7	41.7	43.4	30
41.1	41.2	41.3	41.4	41.4	41.6	41.7	42.1	42.3	42.5	42.8	43.2	41.5	31
65.46	65.48	65.52	65.52	65.54	65.48	65.40	65.36	65.34	65.32	65.28	65.24	65.48	Mean
65.48	65.51	65.57	65.59	65.63	65.58	65.52	65.50	65.49	65.49	65.41	65.44		Corr.
0.00	+ 0.03	+ 0.09	+ 0.11	+ 0.15	+ 0.10	+ 0.04	+ 0.02	+ 0.01	+ 0.01	- 0.07	- 0.04		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1895. NOVEMBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	43·5	44·0	44·1	44·3	44·5	44·6	44·9	45·1	45·4	45·6	45·9	46·3
2	48·6	48·7	48·8	48·8	49·1	49·5	49·9	50·1	50·4	50·5	50·9	51·3
3	55·9	56·3	56·6	57·0	57·5	58·1	58·1	58·9	58·8	59·0	59·4	59·6
4	60·3	60·3	60·3	60·1	59·9	59·6	59·4	59·0	58·7	58·5	57·7	57·6
5	54·9	54·8	54·7	54·7	54·6	54·5	54·3	54·0	53·8	53·8	53·8	53·6
6	50·7	50·5	50·5	50·5	50·4	50·4	50·4	50·3	50·2	50·2	50·1	50·3
7	49·6	49·6	49·7	49·7	49·8	49·8	49·8	49·5	49·2	49·2	49·3	49·4
8	46·9	46·6	46·5	46·4	46·2	45·9	45·7	45·6	45·4	45·5	45·7	46·4
9	48·5	48·6	48·7	49·0	49·3	49·6	49·8	50·2	50·4	50·6	51·6	51·9
10	59·5	60·4	60·3	61·6	62·2	62·8	63·5	64·2	64·4	65·1	65·7	66·1
11	63·0	62·3	61·6	61·0	60·5	59·6	58·7	58·1	57·3	56·6	56·0	55·0
12	53·7	54·6	55·5	56·0	56·8	57·2	57·6	58·6	58·9	59·8	60·6	61·0
13	58·8	58·6	58·5	58·3	58·4	58·4	58·2	58·1	58·0	58·1	58·2	58·2
14	59·3	59·3	59·3	59·2	59·2	59·2	59·2	59·1	58·8	58·9	59·0	59·1
15	58·5	58·3	58·1	57·9	57·8	57·8	57·7	57·6	57·5	57·3	57·2	57·4
16	54·3	53·7	53·3	52·6	52·1	51·5	50·8	50·4	50·0	49·8	49·5	49·4
17	49·1	49·1	48·9	48·9	48·8	48·6	48·5	48·4	48·1	47·9	47·9	48·0
18	46·9	46·8	46·7	46·3	46·2	46·2	46·3	46·3	46·5	46·5	47·0	47·1
19	48·7	48·5	48·5	48·3	48·3	48·2	47·7	47·7	47·4	47·4	47·3	47·3
20	47·9	48·2	48·6	48·8	49·1	49·4	49·6	49·9	49·8	50·3	50·8	51·7
21	57·2	57·6	58·1	58·3	58·8	58·9	59·1	59·1	59·1	59·1	59·0	59·3
22	63·2	63·8	64·3	64·8	65·2	65·9	66·4	67·3	67·3	68·3	69·1	69·6
23	71·5	71·5	71·5	71·4	71·4	71·0	70·6	70·3	70·2	69·6	69·5	69·3
24	68·9	69·1	69·4	69·4	69·9	70·3	70·9	71·4	71·6	72·2	72·2	72·6
25	76·9	77·2	77·4	78·8	78·1	78·3	78·6	78·7	78·8	79·3	79·4	79·6
26	80·3	80·6	80·6	80·2	79·9	79·9	79·3	78·6	78·2	77·5	77·0	76·6
27	62·7	61·7	61·2	60·6	59·8	59·2	58·9	57·9	57·3	57·1	56·9	55·9
28	49·4	49·0	48·5	47·8	47·3	46·7	46·0	45·5	44·9	44·4	44·0	43·6
29	38·5	38·3	38·3	38·1	37·8	37·7	37·9	38·1	38·2	38·8	39·6	39·9
30	44·4	44·7	44·9	45·1	45·5	45·7	46·1	46·5	46·6	47·3	47·6	47·8
Mean	55·72	55·76	55·78	55·80	55·81	55·82	55·80	55·82	55·71	55·81	55·93	56·03
Corr.	55·84	55·88	55·89	55·89	55·89	55·89	55·86	55·87	55·75	55·83	55·94	56·03
D. f. m.	- 0·09	- 0·05	- 0·04	- 0·04	- 0·04	- 0·04	- 0·07	- 0·06	- 0·18	- 0·10	+ 0·01	+ 0·10

1895. NOVEMBER.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

} PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
46.6	47.0	47.2	47.3	47.4	47.5	47.8	48.0	48.1	48.1	48.3	48.6	46.3	1
51.6	52.0	52.5	52.7	53.2	53.7	54.1	54.6	54.9	55.0	55.2	55.4	51.7	2
59.9	60.1	60.0	60.0	60.0	60.0	59.9	60.0	60.0	60.1	60.1	60.2	59.0	3
57.3	57.1	56.9	56.6	56.2	55.8	55.6	55.6	55.5	55.3	55.2	55.1	57.6	4
53.5	53.1	53.1	52.9	52.5	52.2	52.1	51.9	51.7	51.5	51.3	51.0	53.3	5
50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.0	49.8	50.3	6
49.5	49.4	49.2	49.0	48.9	48.7	48.1	47.8	47.7	47.4	47.2	47.1	48.9	7
46.6	46.7	47.0	47.1	47.3	47.4	47.4	47.5	47.7	48.0	48.3	48.4	46.8	8
52.7	52.9	53.5	53.8	54.3	54.6	55.3	56.1	56.7	57.5	58.0	58.8	52.6	9
66.7	66.6	66.6	66.7	66.6	66.4	66.2	65.8	65.2	64.6	64.0	63.5	64.4	10
54.6	53.6	52.9	52.2	51.7	51.3	51.3	51.4	51.4	51.5	52.3	53.2	55.7	11
60.9	61.2	61.3	61.1	61.3	60.8	60.3	59.6	59.4	59.1	58.9	58.8	58.9	12
58.3	58.4	58.5	58.6	58.5	58.6	58.7	58.8	59.0	59.0	59.1	59.2	58.5	13
59.0	59.0	59.2	59.0	58.8	58.7	58.8	58.8	58.9	58.8	58.7	58.6	59.0	14
57.3	57.2	57.0	56.9	56.6	56.6	56.3	56.1	55.7	55.5	55.3	54.7	57.0	15
49.3	49.2	49.0	49.0	48.7	48.6	48.6	48.7	48.7	48.7	48.9	48.9	50.2	16
47.9	47.7	47.5	47.3	47.3	46.9	46.7	46.9	46.8	46.9	47.0	47.1	47.8	17
47.3	47.5	47.6	47.7	47.8	47.9	48.2	48.4	48.5	48.6	48.8	48.8	47.3	18
47.1	47.2	47.2	47.3	47.3	47.2	47.1	47.1	47.2	47.3	47.4	47.6	47.6	19
52.0	52.5	53.0	53.4	54.0	54.5	54.8	55.2	55.5	55.9	56.2	56.7	52.0	20
59.5	59.7	60.1	60.2	60.3	60.6	60.9	61.2	61.6	61.9	62.4	62.8	59.8	21
70.4	70.7	71.5	71.9	72.0	72.0	71.9	71.9	71.8	71.8	71.7	71.6	69.0	22
69.4	69.2	68.9	68.5	68.1	68.0	68.0	68.1	68.4	68.4	68.6	68.7	69.6	23
72.9	73.2	73.5	73.8	74.2	74.6	74.8	75.3	75.4	75.9	76.2	76.4	72.7	24
79.6	79.9	80.0	80.2	80.3	80.4	80.4	80.3	80.2	80.3	80.4	80.3	79.3	25
75.7	75.1	74.0	73.6	72.3	71.2	70.4	69.3	67.8	66.5	64.9	63.7	74.7	26
55.5	55.1	54.6	54.2	53.4	52.9	52.3	51.8	51.3	50.9	50.4	50.0	55.9	27
43.0	42.9	42.6	42.1	41.6	41.3	41.1	40.7	40.3	39.7	39.2	39.0	43.8	28
39.9	40.7	41.5	41.6	42.2	42.4	42.6	42.6	43.1	43.3	43.6	44.2	40.8	29
48.6	48.8	49.0	49.4	49.6	49.7	50.1	50.7	51.1	51.3	51.7	51.7	48.3	30
56.10	56.13	56.17	56.15	56.09	56.03	56.00	56.02	56.00	55.97	55.98	56.00	55.93	Mean
56.09	56.11	56.13	56.10	56.03	55.96	55.92	55.93	55.89	55.85	56.85	55.86		Corr.
+ 0.16	+ 0.18	+ 0.20	+ 0.17	+ 0.10	+ 0.03	- 0.01	0.00	- 0.04	- 0.08	- 0.08	- 0.07		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1895. DECEMBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	52.2	52.8	53.0	53.4	53.6	53.9	54.2	54.4	54.6	55.1	55.5	55.9
2	56.9	56.7	56.9	57.0	56.9	56.7	56.5	56.7	56.8	57.5	57.6	57.9
3	55.0	54.5	54.1	53.8	53.3	53.1	52.8	52.6	52.4	52.2	52.1	51.6
4	53.4	53.5	54.2	54.4	54.8	55.0	55.1	55.1	55.2	55.4	55.4	55.7
5	57.0	57.0	57.1	57.0	57.0	57.0	56.9	56.6	56.2	56.3	56.5	56.7
6	57.9	57.9	57.9	57.9	58.2	58.5	58.8	58.8	59.1	59.4	59.6	59.6
7	63.8	64.0	64.2	64.4	64.5	64.7	65.3	65.2	65.3	65.8	66.3	66.6
8	68.9	69.0	69.0	68.9	69.0	69.0	68.9	68.5	68.5	68.5	68.5	68.4
9	68.0	67.8	67.7	67.8	67.9	67.8	67.8	67.5	67.3	67.3	67.4	67.3
10	61.0	60.5	60.0	59.7	59.5	59.1	58.7	58.2	58.0	57.3	56.6	56.4
11	54.1	54.0	53.9	53.9	53.5	53.4	53.4	53.3	53.3	53.2	53.0	53.0
12	51.7	51.7	51.6	51.6	51.5	51.8	52.1	51.8	51.7	51.7	52.0	52.0
13	55.6	56.3	56.6	57.2	57.4	57.6	57.9	57.7	57.9	58.0	58.5	58.8
14	61.2	61.3	61.3	61.2	61.8	61.9	62.1	62.1	62.0	62.5	62.7	62.8
15	64.0	63.9	64.2	64.0	64.0	64.0	64.0	63.9	63.1	63.1	63.0	63.1
16	57.6	57.3	56.9	57.0	57.2	57.7	57.9	58.6	59.2	60.0	61.7	62.4
17	64.6	64.6	64.7	64.6	64.5	64.5	64.3	64.4	64.5	64.5	64.5	64.1
18	61.4	61.2	61.0	60.8	61.0	60.8	60.8	60.7	60.6	60.6	60.8	61.0
19	63.6	63.8	64.0	63.9	64.6	64.8	64.9	65.6	66.0	66.6	66.8	66.8
20	70.8	71.0	71.0	71.5	71.3	71.7	71.7	71.5	71.3	71.6	71.7	71.6
21	70.5	70.4	70.3	70.1	69.8	69.8	69.8	69.5	69.6	69.3	69.0	68.6
22	69.1	69.3	69.5	69.9	70.3	70.4	70.7	71.0	71.0	71.4	71.8	71.9
23	72.3	72.2	72.0	71.7	71.7	71.8	71.8	71.8	71.1	71.0	70.7	70.6
24	68.2	68.2	68.1	68.0	67.8	67.7	67.6	67.5	67.4	67.5	67.3	67.4
25	68.9	69.1	69.2	69.7	69.7	69.9	70.0	70.0	70.1	70.3	70.5	70.7
26	70.4	70.5	70.4	70.4	70.4	70.4	70.2	69.9	69.7	69.7	69.7	69.7
27	64.6	64.4	62.3	61.4	60.7	59.9	58.7	57.7	57.0	56.6	56.2	56.0
28	51.0	50.6	50.2	49.8	49.7	49.4	49.0	48.9	48.9	49.0	49.1	49.2
29	51.7	51.9	52.2	52.3	52.4	52.7	52.9	53.1	53.2	53.4	53.7	53.8
30	54.9	55.1	55.3	55.4	55.5	55.8	56.1	56.2	56.3	56.4	56.7	57.0
31	58.5	58.7	58.9	59.0	58.9	58.9	58.9	58.6	58.5	58.6	58.7	58.7
Mean	61.25	61.26	61.22	61.22	61.24	61.28	61.28	61.21	61.15	61.28	61.41	61.46
Corr.	61.34	61.34	61.29	61.29	61.30	61.33	61.32	61.24	61.17	61.30	61.42	61.46
D. f. m.	+ 0.02	+ 0.02	- 0.03	- 0.03	- 0.02	+ 0.01	0.00	- 0.08	- 0.15	- 0.02	+ 0.10	+ 0.14

1895. DECEMBER.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
56.1	56.2	56.4	56.6	56.7	56.8	56.7	56.6	56.6	56.8	56.9	56.9	55.3	1
57.6	57.7	57.3	57.2	57.1	56.9	56.7	56.4	55.9	55.6	55.3	55.1	56.8	2
51.8	52.1	51.9	51.8	51.8	52.1	51.9	52.0	52.2	52.5	52.8	53.1	52.6	3
56.2	56.1	56.2	56.3	56.6	56.6	56.5	56.5	56.5	56.5	56.6	57.0	55.6	4
56.6	56.5	56.9	56.9	57.0	56.6	56.7	57.1	57.3	57.4	57.4	57.5	56.9	5
59.7	59.9	59.9	60.4	60.6	60.9	61.0	61.2	61.6	62.3	63.0	63.6	59.5	6
66.9	67.0	67.1	67.8	68.0	68.2	68.4	68.6	68.7	69.1	69.0	68.9	66.6	7
68.3	68.2	68.2	68.2	68.2	68.1	68.0	67.9	68.0	68.0	67.9	67.9	68.4	8
66.8	66.5	66.0	65.8	65.6	65.2	64.1	63.8	63.4	62.4	61.4	61.3	66.0	9
56.1	55.8	55.4	55.4	55.0	54.9	54.7	54.7	54.5	54.4	54.2	54.2	56.8	10
52.6	52.4	52.4	52.2	52.2	52.0	51.9	51.8	51.8	51.8	51.8	51.6	52.8	11
52.0	52.0	52.1	52.6	52.7	52.9	53.1	53.6	54.0	54.3	54.8	55.0	52.5	12
59.2	59.4	59.7	59.9	60.1	60.3	60.4	60.4	60.4	60.6	60.9	61.0	58.8	13
63.1	63.5	63.7	63.7	63.7	63.8	63.9	63.9	63.9	63.8	63.8	64.0	62.8	14
63.2	63.2	63.1	62.4	62.1	61.2	60.2	59.8	59.2	58.8	58.2	58.0	62.2	15
62.6	63.0	63.1	63.1	63.1	63.3	63.5	64.1	64.0	64.2	64.6	64.5	61.1	16
64.0	64.0	63.9	63.4	63.0	62.8	62.6	62.4	62.1	61.8	61.6	61.5	63.6	17
61.1	61.0	61.0	61.3	61.2	61.4	61.8	62.1	62.1	62.5	62.7	63.2	61.3	18
67.4	67.8	67.9	68.4	68.6	68.8	68.9	69.1	69.8	70.1	70.4	70.7	67.1	19
71.6	71.6	71.5	71.3	70.9	70.5	70.1	69.7	70.0	70.3	70.5	70.6	71.1	20
68.2	68.0	67.9	67.8	67.2	67.3	67.5	67.8	68.1	68.3	68.4	68.8	68.8	21
71.9	72.0	72.0	72.2	72.7	73.0	73.1	72.5	72.4	72.3	72.2	72.5	71.5	22
70.5	70.2	69.9	69.8	69.4	69.4	69.4	69.3	69.1	68.7	68.5	68.2	70.5	23
67.8	67.8	67.9	68.1	68.2	68.2	68.3	68.2	68.2	68.2	68.3	68.5	67.9	24
70.8	70.6	70.4	70.4	70.3	70.2	70.2	70.1	70.1	70.2	70.2	70.2	70.1	25
69.5	69.2	69.1	68.9	68.8	68.5	68.1	67.7	67.1	66.5	66.1	65.4	69.0	26
55.7	55.5	54.8	54.5	53.8	53.4	52.8	52.5	52.0	51.7	51.6	51.2	56.5	27
49.1	48.9	49.1	49.5	49.4	49.5	49.7	50.0	50.1	50.3	50.7	51.0	49.7	28
54.0	54.1	54.1	54.2	54.2	54.3	54.4	54.5	54.5	54.6	54.7	54.7	53.6	29
57.3	57.4	57.6	57.6	57.4	57.5	57.7	58.1	58.0	58.0	58.1	58.5	56.8	30
58.5	58.5	58.3	58.3	58.3	58.1	58.0	57.9	57.8	57.8	57.8	57.8	58.4	31
61.49	61.49	61.45	61.45	61.42	61.38	61.30	61.30	61.27	61.28	61.30	61.37	61.32	Mean
61.48	61.47	61.43	61.42	61.38	61.33	61.24	61.23	61.20	61.20	61.21	61.27		Corr.
+ 0.16	+ 0.15	+ 0.11	+ 0.10	+ 0.06	+ 0.01	- 0.08	- 0.09	- 0.12	- 0.12	- 0.11	- 0.05		D. f. m.

PRESSURE OF THE AIR. } STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1896. JANUARY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	57.8	57.8	57.8	57.5	57.2	57.1	57.1	57.1	57.2	57.2	57.1	57.2
2	56.9	57.1	57.1	57.0	57.0	57.1	57.0	57.1	57.1	57.2	57.5	57.9
3	60.8	61.2	61.6	61.8	62.2	62.5	62.8	63.1	63.2	63.4	63.7	63.9
4	62.0	61.9	61.6	61.3	61.3	61.0	60.7	60.5	60.3	60.3	60.3	60.2
5	58.7	58.8	58.9	58.6	58.5	58.7	58.8	58.6	58.5	58.5	58.4	58.3
6	54.3	54.2	53.7	53.4	53.0	52.7	52.3	51.7	51.2	50.6	50.3	50.3
7	47.0	47.1	47.2	47.7	48.3	49.0	49.1	49.2	49.3	49.9	50.4	50.5
8	52.9	53.2	53.5	53.8	53.9	54.2	54.1	54.5	54.5	54.5	54.5	54.9
9	57.7	57.8	57.9	58.5	58.8	59.0	59.2	59.9	59.8	60.0	60.3	60.4
10	61.8	61.9	62.0	62.0	62.2	62.1	62.0	61.9	61.9	62.0	61.9	62.2
11	60.9	60.8	60.5	60.2	60.2	60.1	60.0	60.1	60.1	60.3	60.2	60.2
12	60.2	60.2	60.1	59.9	59.8	59.7	59.5	59.3	59.3	59.1	58.8	58.7
13	56.2	56.1	55.7	55.6	55.4	55.3	55.1	54.8	54.5	54.3	54.0	53.7
14	50.1	50.1	50.0	49.9	50.0	50.1	50.1	50.2	50.4	50.4	50.4	51.0
15	54.5	54.7	55.1	55.3	55.9	56.3	56.4	56.8	57.3	58.0	58.3	58.8
16	62.8	63.0	63.3	63.6	63.9	64.0	64.0	64.1	64.0	63.8	63.7	63.6
17	55.6	55.0	54.7	53.4	53.0	53.0	52.3	52.2	51.9	51.7	51.8	51.8
18	58.5	59.0	59.2	59.4	59.1	58.7	58.2	57.8	56.8	56.5	55.9	55.6
19	50.7	50.3	50.1	50.1	49.9	49.2	49.0	48.7	48.2	48.0	47.9	47.6
20	46.2	46.2	46.2	45.9	45.8	45.9	46.0	45.9	46.0	46.1	46.0	46.0
21	47.4	47.6	47.9	48.2	48.6	48.8	48.9	48.9	48.9	49.2	49.5	49.9
22	50.1	50.0	49.9	49.8	49.4	48.8	48.0	47.6	46.9	46.8	46.7	46.4
23	44.8	44.6	44.5	44.7	44.5	44.5	44.8	44.7	44.9	44.8	44.9	45.5
24	47.1	47.1	47.1	46.9	46.9	47.0	47.1	47.1	46.9	46.6	46.5	46.1
25	46.8	47.7	48.6	49.4	50.5	51.3	52.0	53.0	53.8	54.4	55.0	55.5
26	58.9	59.1	59.3	59.3	59.6	59.5	59.6	59.6	59.8	60.6	61.0	61.4
27	66.6	66.9	67.7	67.9	68.3	68.8	69.0	69.3	70.0	69.9	70.2	70.7
28	65.6	64.2	63.4	62.9	62.5	61.3	61.2	61.0	60.6	60.7	60.7	60.8
29	60.9	60.6	60.5	60.3	60.0	59.8	59.3	58.5	58.0	57.5	57.2	56.6
30	49.1	48.8	48.7	48.5	48.4	48.2	48.0	47.9	47.9	48.0	48.1	48.5
31	52.9	53.6	53.9	54.4	54.9	55.5	55.9	56.4	56.9	57.0	57.8	57.9
Mean	55.35	55.37	55.41	55.39	55.45	55.46	55.40	55.40	55.36	55.40	55.45	55.55
Corr.	55.34	55.36	55.40	55.38	55.44	55.45	55.39	55.39	55.36	55.40	55.45	55.55
D. f. m.	- 0.05	- 0.03	+ 0.01	- 0.01	+ 0.05	+ 0.06	0.00	0.00	- 0.03	+ 0.01	+ 0.06	+ 0.16



1896. JANUARY.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
57.3	57.3	57.1	57.0	57.1	57.1	56.8	57.0	56.8	56.8	56.7	56.7	57.2	1
58.0	58.1	58.5	58.8	58.5	58.8	59.1	59.3	59.9	59.9	60.3	60.6	58.2	2
63.9	63.9	63.7	63.7	63.4	63.0	62.9	62.8	62.5	62.4	62.3	62.1	62.8	3
60.0	59.9	59.8	59.4	59.3	59.0	59.1	59.2	58.9	58.8	58.6	58.7	60.1	4
58.7	58.2	58.1	57.9	57.7	57.3	57.2	56.7	56.1	55.7	55.3	54.6	57.8	5
50.2	49.8	49.6	48.8	48.5	47.9	47.6	47.3	47.1	46.9	46.9	47.0	50.2	6
50.5	50.4	50.7	50.9	51.1	51.2	51.6	51.7	51.8	52.0	52.2	52.7	50.0	7
54.9	54.9	55.0	55.2	55.5	55.7	55.7	56.0	56.2	56.6	56.9	57.4	54.9	8
60.5	60.3	60.4	60.7	60.9	61.0	61.0	61.1	61.2	61.3	61.5	61.7	60.0	9
62.6	62.5	62.4	62.0	61.9	61.7	61.5	61.3	61.0	60.9	61.0	60.9	61.8	10
60.1	60.2	60.4	60.3	59.9	59.9	60.0	59.9	60.0	59.9	59.9	60.0	60.2	11
58.8	58.4	58.3	58.1	58.1	57.9	57.6	57.5	57.5	57.2	56.9	56.6	58.6	12
53.5	53.2	52.6	52.3	52.2	51.8	51.8	51.8	51.4	50.9	50.4	50.2	53.4	13
51.2	51.3	51.3	51.4	51.7	51.9	52.3	52.6	52.8	53.1	53.6	53.7	51.2	14
59.1	59.6	59.9	60.4	60.6	61.0	61.6	61.7	61.9	62.0	62.0	62.4	58.8	15
63.6	63.1	62.7	62.2	61.3	60.8	60.9	60.0	59.5	58.5	57.5	56.4	62.1	16
52.0	52.4	52.5	53.2	53.6	54.4	54.9	55.5	56.2	57.1	57.4	57.7	53.9	17
54.9	54.6	54.2	53.9	52.9	52.5	51.8	51.8	51.6	51.1	50.9	50.7	55.2	18
47.2	47.2	47.2	46.9	46.8	46.5	46.1	46.0	46.1	46.0	46.0	46.3	47.8	19
46.2	46.2	46.3	46.5	46.6	46.7	46.5	46.6	46.8	46.8	46.8	47.1	46.3	20
49.9	50.3	50.3	50.2	50.4	50.6	50.5	50.5	50.6	50.4	50.2	50.1	49.5	21
46.5	46.5	46.3	45.9	45.7	45.4	45.1	44.9	44.7	44.8	44.6	44.8	46.9	22
45.5	45.6	45.7	45.8	46.1	46.2	46.3	46.3	46.4	46.6	46.9	47.1	45.5	23
45.9	45.2	44.3	43.8	43.1	42.8	42.5	42.7	43.2	44.0	45.0	45.9	45.4	24
55.8	56.3	56.8	56.9	57.1	56.9	57.3	57.8	58.2	58.5	58.7	58.9	54.5	25
61.8	62.0	62.4	63.1	63.9	64.0	64.2	64.5	64.8	65.4	65.7	66.3	61.9	26
70.8	71.0	71.0	71.2	71.1	70.8	70.3	69.2	68.6	67.8	67.0	66.0	69.2	27
60.8	61.0	61.1	61.4	61.3	61.3	61.1	61.3	60.8	61.1	61.3	61.0	61.6	28
56.3	55.6	54.8	54.2	53.1	52.4	51.8	51.2	50.8	50.5	50.0	49.6	55.8	29
48.8	48.9	49.0	49.2	49.8	50.0	50.4	50.8	51.3	51.9	52.2	52.8	49.8	30
58.1	58.2	58.2	58.2	58.2	58.1	57.9	57.7	57.4	57.2	57.1	56.6	56.7	31
55.59	55.55	55.50	55.47	55.40	55.31	55.27	55.25	55.23	55.23	55.22	55.25	55.39	Mean
55.59	55.55	55.50	55.48	55.41	55.32	55.28	55.26	55.24	55.24	55.23	55.27		Corr.
+ 0.20	+ 0.16	+ 0.11	+ 0.09	+ 0.02	- 0.07	- 0.11	- 0.13	- 0.15	- 0.15	- 0.16	- 0.12		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1896. FEBRUARY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	56.2	55.7	55.3	54.8	54.2	53.8	53.3	52.7	52.2	51.9	51.3	50.8
2	42.2	42.0	42.0	42.1	41.8	41.1	40.9	40.9	40.7	40.0	39.8	39.8
3	43.7	44.0	44.7	45.0	45.8	46.4	47.0	47.9	48.7	48.7	49.4	49.8
4	55.6	55.9	55.8	56.0	56.3	56.3	56.0	56.3	56.5	56.8	57.0	57.4
5	58.3	58.4	58.6	58.8	58.8	58.9	58.9	58.8	59.1	59.0	58.9	58.8
6	57.6	57.7	57.9	58.1	58.5	58.8	59.0	59.1	59.0	59.1	59.5	59.9
7	58.7	58.6	58.5	58.4	58.3	58.0	57.7	57.6	57.5	57.7	57.8	57.8
8	56.6	56.6	56.7	56.7	56.9	57.0	57.3	57.8	57.8	58.0	58.2	58.6
9	60.6	60.7	60.7	60.5	60.5	60.2	59.9	59.6	59.1	58.9	59.4	59.2
10	54.8	54.4	53.8	53.0	52.9	52.2	51.8	51.2	50.8	50.3	49.0	48.6
11	45.4	46.4	47.2	48.3	49.2	50.1	51.0	51.6	52.7	53.4	54.1	54.6
12	57.9	58.2	58.4	58.9	59.2	59.4	59.5	59.8	60.2	60.5	60.7	60.8
13	64.4	64.6	64.9	64.9	65.2	65.4	65.6	65.8	66.1	66.2	66.4	66.3
14	65.9	65.7	65.8	64.8	64.6	64.1	63.6	62.9	62.4	61.8	61.1	60.5
15	52.6	51.8	51.5	51.2	51.0	50.7	50.1	49.9	50.1	50.1	50.2	50.1
16	46.8	46.6	46.2	46.0	45.8	45.4	45.3	45.2	45.2	45.3	45.5	45.6
17	48.8	48.9	49.1	49.4	50.0	50.3	50.6	50.6	51.0	51.2	50.8	50.7
18	40.9	39.5	37.6	36.9	36.2	35.1	34.2	34.2	34.4	35.1	35.9	36.5
19	44.7	44.0	45.0	45.8	46.0	46.4	47.1	48.0	48.5	49.2	49.8	50.2
20	61.3	61.8	62.6	63.3	63.9	64.4	65.1	65.3	67.7	66.9	66.6	67.1
21	58.5	55.9	54.0	51.7	51.1	49.1	47.9	46.8	45.5	44.1	42.4	42.0
22	33.7	32.7	31.0	29.4	27.6	26.3	25.0	24.8	24.7	24.1	24.9	25.2
23	28.4	28.3	28.3	28.5	28.7	29.1	29.9	30.3	31.1	32.7	33.8	34.9
24	54.0	54.8	55.5	55.9	55.9	55.6	54.9	54.5	53.7	53.3	52.0	51.1
25	31.9	32.3	33.2	33.9	35.3	35.8	37.0	37.1	36.4	37.4	37.8	37.1
26	34.9	34.1	32.2	30.2	27.2	26.1	24.8	24.7	24.5	24.9	27.0	29.5
27	34.4	34.5	34.5	34.8	35.1	35.6	36.2	36.7	37.2	37.6	37.9	38.1
28	37.5	37.5	37.3	37.3	37.2	37.2	36.8	36.8	36.8	36.8	36.9	36.9
29	38.7	39.1	39.6	39.9	41.0	41.4	42.3	42.8	42.3	43.8	44.6	44.9
Mean	49.14	48.98	48.89	48.78	48.77	48.63	48.53	48.61	48.69	48.79	48.92	49.06
Corr.	49.06	48.90	48.82	48.72	48.72	48.58	48.54	48.58	48.67	48.77	48.91	49.06
D. f. m.	+ 0.14	- 0.02	- 0.10	- 0.20	- 0.20	- 0.34	- 0.38	- 0.34	- 0.25	- 0.15	- 0.01	+ 0.14

1896. FEBRUARY.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
49.9	49.2	48.4	48.0	47.1	46.3	45.4	44.6	43.8	43.2	42.8	42.3	49.7	1
40.0	40.3	40.4	40.5	40.4	40.5	40.6	41.0	41.2	42.0	42.8	42.8	41.1	2
50.4	51.1	51.7	52.0	52.7	53.0	53.5	53.7	54.1	54.5	55.0	55.4	49.9	3
57.6	57.5	57.6	57.7	57.7	57.7	57.8	57.8	57.8	58.0	58.4	58.4	57.1	4
58.8	58.4	58.0	57.9	57.8	57.7	57.6	57.4	57.2	57.3	57.4	57.5	58.3	5
60.0	60.0	59.8	59.8	59.7	59.6	59.4	59.2	59.0	58.7	58.7	58.7	59.0	6
57.6	57.5	57.3	57.2	57.0	56.8	56.7	56.6	56.4	56.5	56.5	56.6	57.5	7
58.9	59.1	59.5	59.6	59.8	59.9	59.8	59.9	60.0	60.2	60.4	60.4	58.6	8
59.0	58.9	58.8	57.9	57.3	57.1	56.8	56.7	56.3	56.0	55.8	55.3	58.5	9
47.6	46.5	45.5	44.4	43.9	43.4	42.9	43.0	43.2	43.3	43.9	44.5	48.1	10
55.0	55.3	55.7	55.9	56.2	56.5	56.9	57.1	57.6	57.7	57.8	57.8	53.5	11
60.8	60.8	61.1	61.5	62.0	62.2	62.6	62.9	63.0	63.4	64.0	64.3	60.9	12
66.2	66.2	66.2	66.2	66.5	66.5	66.5	66.1	65.9	66.1	66.2	66.0	65.8	13
59.7	58.8	57.8	57.5	56.7	56.1	55.3	54.9	54.8	54.0	53.6	53.0	59.8	14
50.0	49.7	49.5	49.3	49.5	48.6	47.9	47.8	47.7	47.4	47.2	46.9	49.6	15
46.0	46.2	46.4	46.4	46.8	46.7	46.9	47.0	47.4	47.8	48.6	48.7	46.4	16
50.5	50.1	49.9	49.4	48.9	48.4	47.5	46.4	45.5	44.9	43.9	42.1	48.7	17
37.6	38.9	39.9	40.9	41.4	41.8	41.7	41.5	42.9	43.5	43.9	44.2	38.9	18
51.2	51.9	52.6	53.4	54.2	54.8	55.5	56.5	57.3	58.7	59.8	60.7	51.3	19
67.6	67.2	67.1	66.7	66.2	65.4	64.4	64.1	63.5	62.5	61.5	60.1	64.7	20
40.8	40.0	39.0	38.3	37.8	36.8	35.9	35.6	35.2	35.0	34.8	34.5	43.0	21
25.5	26.2	26.7	26.8	26.8	26.8	27.4	27.6	28.5	28.6	28.6	28.5	27.4	22
36.4	38.2	40.3	43.0	44.0	45.0	47.4	48.7	50.8	51.6	52.7	53.6	38.2	23
51.1	48.1	46.1	44.2	43.7	40.7	37.8	36.1	34.6	33.8	32.4	32.0	47.2	24
36.7	35.6	34.5	33.7	33.2	33.4	34.0	34.8	35.7	36.1	36.3	36.2	35.2	25
31.5	32.5	32.9	33.2	33.6	34.0	34.2	34.3	34.3	34.1	34.2	34.3	31.0	26
38.5	38.6	38.7	39.0	38.6	38.2	37.7	37.3	37.5	37.8	38.2	37.7	37.1	27
36.8	36.7	36.8	36.5	36.4	36.2	36.0	36.1	36.8	37.4	38.3	38.6	37.0	28
45.6	46.0	46.5	47.2	47.7	48.1	48.9	49.2	50.0	50.5	50.9	51.3	45.1	29
49.22	49.16	49.13	49.11	49.09	48.90	48.79	48.76	48.90	48.99	49.12	49.05	48.92	Mean
49.23	49.18	49.15	49.14	49.13	48.95	48.84	48.82	48.97	49.07	49.20	49.14		Corr.
+ 0.31	+ 0.26	+ 0.23	+ 0.22	+ 0.21	+ 0.03	- 0.08	- 0.10	+ 0.05	+ 0.15	+ 0.28	+ 0.22		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1896. MARCH.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	51.7	52.2	52.7	53.0	53.7	54.0	54.3	55.0	55.5	56.3	57.0	57.9
2	60.8	60.2	59.7	59.2	58.8	58.5	58.2	58.2	58.2	58.1	58.1	58.1
3	59.2	59.2	59.4	59.7	60.1	60.6	61.0	61.2	61.3	61.6	62.0	62.1
4	60.6	60.5	60.3	60.3	60.3	60.3	60.5	60.6	61.0	61.3	62.0	62.3
5	69.4	69.8	70.1	70.4	70.6	70.8	71.1	71.4	71.4	71.6	71.8	72.4
6	73.2	72.9	72.5	71.7	71.7	71.1	70.4	70.3	69.2	68.6	67.2	65.7
7	54.2	54.2	54.1	54.2	55.0	55.6	56.9	57.5	58.4	59.3	60.0	60.7
8	64.6	64.3	63.5	62.5	62.1	61.2	59.9	59.0	58.3	57.8	57.3	56.9
9	56.7	56.9	57.1	57.1	57.3	57.9	58.9	59.9	61.5	62.8	64.5	65.5
10	77.0	77.2	77.7	78.1	78.4	78.6	78.8	79.0	78.7	79.1	79.0	79.0
11	74.6	74.1	73.9	73.4	73.2	72.9	72.5	72.3	72.0	71.9	71.6	71.4
12	70.2	70.2	70.1	70.1	69.8	69.8	69.6	69.2	69.0	69.0	69.5	69.9
13	66.4	66.1	65.8	65.5	65.3	64.7	64.0	63.8	63.1	62.6	62.1	61.4
14	58.7	58.9	59.1	59.2	59.5	59.5	59.7	59.9	59.8	59.6	59.4	59.1
15	56.9	57.0	57.0	56.9	56.9	56.9	56.9	56.8	56.7	56.8	56.7	56.5
16	56.1	56.1	56.1	56.0	55.9	55.8	55.7	55.7	55.6	55.6	55.6	55.7
17	54.7	54.6	54.5	54.4	54.3	54.5	54.5	54.3	53.9	53.6	53.6	53.6
18	53.5	53.9	54.1	54.2	54.4	54.7	55.1	55.2	55.2	55.5	55.9	56.2
19	59.1	59.3	59.5	59.7	59.8	60.0	60.3	60.5	60.6	61.0	61.3	61.5
20	61.5	61.5	61.6	61.7	61.3	61.3	61.2	60.9	60.7	60.6	60.6	60.4
21	59.1	59.1	59.0	58.9	58.9	58.8	58.8	58.5	58.4	58.3	58.2	58.0
22	55.3	55.1	54.7	54.6	54.2	53.9	53.6	53.8	54.1	54.5	54.9	54.9
23	54.0	53.7	53.6	53.2	52.7	52.4	52.3	52.0	51.9	51.8	52.1	52.3
24	48.1	47.7	47.6	46.9	46.7	46.6	46.6	46.7	46.8	47.1	47.5	47.7
25	50.8	51.1	51.5	51.8	51.8	52.0	52.6	53.5	53.5	53.6	54.1	54.2
26	57.3	57.5	57.7	57.7	57.6	57.7	57.8	57.8	57.9	57.8	57.8	57.8
27	56.6	56.6	56.7	56.8	57.0	56.7	56.8	56.4	56.4	56.5	56.7	56.7
28	59.3	59.5	59.6	60.0	60.6	61.6	61.6	62.1	62.4	63.2	64.1	64.7
29	69.0	68.7	68.4	68.3	68.1	67.9	67.7	67.4	67.1	66.8	66.8	66.4
30	62.4	62.0	61.8	61.4	61.0	60.8	60.5	60.2	60.1	60.1	60.1	60.0
31	58.5	58.3	58.1	57.7	57.8	57.7	57.7	57.8	57.7	57.8	57.9	57.7
Mean	60.31	60.27	60.24	60.15	60.15	60.15	60.18	60.22	60.20	60.33	60.50	60.54
Corr.	60.39	60.35	60.31	60.21	60.20	60.20	60.22	60.25	60.23	60.35	60.51	60.54
D. f. m.	+ 0.01	- 0.03	- 0.07	- 0.17	- 0.18	- 0.18	- 0.16	- 0.13	- 0.15	- 0.03	+ 0.13	+ 0.16

1896. MARCH.

700 mm. +

STANDARD GRAVITY.  
SEA-LEVEL.

PRESSURE OF THE AIR.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
58.5	59.1	59.3	60.0	60.5	60.7	60.9	61.1	61.2	61.4	61.2	61.1	57.4	1
58.1	58.0	57.9	58.0	58.0	58.1	58.2	58.2	58.4	58.6	58.7	58.9	58.4	2
62.1	62.0	61.9	62.0	62.0	61.9	61.8	61.7	61.6	61.2	60.9	60.7	61.1	3
63.0	63.4	63.8	64.7	65.5	65.8	66.6	66.8	67.2	67.8	68.4	68.9	63.4	4
72.3	72.5	73.1	73.3	73.1	73.1	73.2	73.2	73.3	73.3	73.3	73.3	72.0	5
65.3	63.5	62.4	61.0	60.4	59.5	58.0	57.5	55.9	55.4	54.8	54.3	64.7	6
61.7	61.8	62.7	63.0	63.4	64.0	64.5	64.6	64.6	64.7	64.7	64.8	60.2	7
56.3	56.0	55.5	55.2	55.4	55.5	55.5	55.8	56.2	56.5	56.5	56.6	58.3	8
66.6	67.8	68.8	69.8	70.6	71.5	72.6	73.5	74.0	74.8	75.7	76.2	65.7	9
78.5	78.1	78.1	77.8	77.3	76.8	76.5	76.1	76.0	75.7	75.3	74.9	77.6	10
71.2	71.0	70.9	70.8	70.8	70.9	70.7	70.7	70.6	70.6	70.3	70.1	71.8	11
69.9	69.8	69.8	69.8	69.5	69.1	68.7	68.5	68.1	67.8	67.3	66.8	69.2	12
60.5	59.7	59.3	59.1	58.7	58.1	57.4	57.2	57.1	57.4	57.7	58.2	61.3	13
58.6	58.0	58.0	57.4	56.9	56.9	56.8	56.7	56.7	56.7	56.7	56.8	58.3	14
56.4	56.4	56.3	56.3	56.2	56.1	55.9	56.0	56.2	56.2	56.3	56.3	56.5	15
55.8	55.6	55.5	55.5	55.5	55.5	55.3	55.3	55.1	55.0	55.0	54.9	55.6	16
53.5	53.4	53.4	53.2	53.3	53.2	53.2	53.2	53.1	53.1	53.3	53.4	53.7	17
56.5	56.8	57.0	57.2	57.5	57.7	58.0	58.1	58.2	58.5	58.8	58.8	56.3	18
61.6	61.6	61.7	61.8	61.9	61.7	61.5	61.3	61.2	61.2	61.3	61.3	60.9	19
60.2	60.1	60.0	59.7	59.3	59.2	59.0	59.0	58.8	58.9	59.0	59.0	60.2	20
57.7	57.6	57.5	57.3	56.8	56.6	56.5	56.3	56.0	55.8	55.5	55.4	57.6	21
55.0	55.0	55.1	55.3	55.3	55.2	55.2	55.1	55.1	55.0	54.6	54.3	54.7	22
52.4	52.3	52.2	51.8	51.3	50.9	50.4	50.3	50.0	49.5	49.2	48.8	51.7	23
48.3	48.5	48.6	48.6	48.7	48.7	49.2	49.6	49.8	50.1	50.5	50.7	48.2	24
54.1	54.2	54.2	54.5	55.2	55.2	55.3	55.8	56.1	56.6	57.0	57.3	54.0	25
57.7	57.6	57.6	57.6	57.6	57.4	57.2	56.8	56.8	56.8	56.8	56.7	57.5	26
56.7	56.6	56.6	56.7	57.0	57.2	57.4	57.6	57.9	58.4	58.7	58.9	57.1	27
65.3	65.8	66.3	66.9	67.2	67.6	68.0	68.2	68.4	68.6	68.8	69.0	64.5	28
66.2	65.8	65.7	65.4	65.2	64.6	64.1	63.5	63.2	63.0	62.8	62.5	66.0	29
59.7	59.6	59.4	59.3	59.2	58.9	58.7	58.6	58.4	58.5	58.5	58.5	59.9	30
57.6	57.6	57.7	57.6	57.5	57.3	57.1	57.0	56.8	56.9	57.0	57.0	57.6	31
60.56	60.49	60.53	60.54	60.54	60.48	60.43	60.43	60.39	60.45	60.47	60.46	60.38	Mean
60.55	60.47	60.50	60.51	60.50	60.43	60.38	60.37	60.32	60.47	60.49	60.37		Corr.
+ 0.17	+ 0.09	+ 0.12	+ 0.13	+ 0.12	+ 0.05	0.00	- 0.01	- 0.06	+ 0.09	+ 0.11	- 0.01		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1896. APRIL.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	57.0	57.1	57.2	57.1	56.9	56.8	56.7	56.6	56.5	56.6	56.8	57.0
2	55.9	55.6	55.4	55.3	55.0	54.9	54.7	54.6	54.6	54.5	54.5	54.5
3	52.8	52.7	52.9	53.3	53.5	53.8	54.3	54.8	55.3	55.5	55.9	56.2
4	58.0	58.3	58.5	58.8	59.1	59.5	59.6	60.1	60.5	60.9	61.5	61.9
5	64.0	63.9	63.8	63.7	63.6	63.4	63.1	63.0	62.8	62.8	62.8	62.9
6	62.1	62.0	61.9	61.9	61.7	61.6	61.5	61.4	61.3	61.2	61.5	61.4
7	58.8	58.5	58.0	57.7	57.4	56.9	56.4	55.8	55.5	55.2	54.6	54.2
8	51.6	51.4	51.2	50.9	50.7	50.6	50.4	50.3	50.4	50.5	50.4	50.4
9	52.1	52.2	52.3	52.7	52.9	53.1	53.2	53.5	53.5	53.7	54.0	54.3
10	54.4	54.3	54.2	54.2	54.0	53.9	53.8	53.8	53.7	53.7	53.8	53.8
11	53.7	53.6	53.6	53.6	53.9	54.2	54.7	55.0	55.1	55.5	55.7	56.0
12	60.3	60.5	60.7	61.2	61.5	61.8	62.3	62.6	62.8	63.2	63.5	63.6
13	66.4	66.3	66.3	66.3	66.2	66.2	66.1	66.0	65.8	65.8	65.7	65.6
14	66.1	66.4	66.7	66.7	66.9	66.9	66.9	67.0	67.1	67.2	67.6	67.8
15	69.3	69.4	69.6	69.7	69.9	70.1	70.2	70.3	70.4	70.4	70.7	70.9
16	71.7	71.7	71.7	71.6	71.5	71.4	71.3	71.1	71.1	71.0	70.9	70.8
17	69.1	69.0	68.8	68.8	68.6	68.6	68.6	68.5	68.6	68.9	68.9	68.9
18	68.1	68.1	68.1	68.1	68.2	68.3	68.4	68.5	68.5	68.7	68.9	68.9
19	69.3	69.4	69.6	69.6	69.7	69.8	69.8	69.8	69.7	69.8	69.9	70.0
20	67.4	66.9	66.6	65.8	65.7	65.5	65.3	65.1	64.5	64.5	64.6	64.5
21	59.5	59.2	58.8	58.6	58.1	57.8	57.6	57.5	57.3	57.3	57.1	56.9
22	56.7	56.9	57.1	57.3	57.7	58.1	58.4	59.1	59.4	59.6	60.2	60.6
23	62.3	62.6	62.5	62.6	62.6	62.8	62.8	62.8	62.9	62.9	62.8	63.0
24	63.2	63.2	63.2	63.1	63.0	63.0	63.1	62.7	62.6	62.4	62.4	62.3
25	61.7	61.6	61.6	61.6	61.8	61.7	61.5	61.6	61.7	61.7	61.7	61.6
26	63.6	63.6	63.6	63.6	63.5	63.5	63.6	63.7	63.7	63.8	64.0	64.0
27	65.1	65.1	65.0	65.0	65.0	65.0	65.1	64.9	64.8	64.6	64.5	64.5
28	60.7	60.4	60.2	59.9	59.7	59.5	59.3	59.3	59.2	59.3	59.4	59.6
29	61.8	62.0	62.3	62.6	62.8	62.9	63.2	63.6	64.1	64.2	64.8	65.0
30	68.4	68.5	68.7	69.0	69.4	69.8	70.2	70.4	70.4	70.8	71.1	71.4
Mean	61.70	61.68	61.67	61.68	61.68	61.71	61.74	61.78	61.79	61.87	62.01	62.08
Corr.	61.95	61.90	61.88	61.86	61.84	61.84	61.85	61.87	61.86	61.91	62.03	62.08
D. f. m.	+ 0.02	- 0.03	- 0.05	- 0.07	- 0.09	- 0.09	- 0.08	- 0.06	- 0.07	- 0.02	+ 0.10	+ 0.15

1896. APRIL.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
57.0	57.0	57.1	56.9	56.9	56.8	56.7	56.6	56.6	56.5	56.4	56.1	56.8	1
54.6	54.6	54.6	54.6	54.7	54.6	54.5	54.3	54.0	53.5	53.3	53.0	54.6	2
56.3	56.3	56.3	56.3	56.4	56.5	56.5	56.6	56.7	57.0	57.6	57.7	55.5	3
62.0	62.3	62.5	62.6	62.7	62.9	63.2	63.5	63.6	63.7	63.8	64.1	61.4	4
62.9	62.8	62.7	62.6	62.5	62.4	62.3	62.2	62.2	62.2	62.2	62.2	62.9	5
61.3	61.1	60.9	60.6	60.5	60.3	60.1	59.9	59.7	59.6	59.4	59.2	60.9	6
53.7	53.4	53.1	52.6	52.4	52.2	52.0	51.8	51.8	51.8	51.7	51.7	54.5	7
50.4	50.3	50.3	50.3	50.4	50.4	50.5	50.6	51.1	51.3	51.4	51.7	50.7	8
54.1	54.3	54.5	54.5	54.4	54.3	54.2	54.3	54.3	54.4	54.6	54.4	53.7	9
53.8	53.6	53.4	53.4	53.3	53.2	53.2	53.1	53.2	53.4	53.5	53.6	53.7	10
56.4	56.7	57.0	57.2	57.5	57.7	57.9	58.2	58.7	59.0	59.5	60.0	56.3	11
63.9	64.2	64.4	64.6	64.9	65.1	65.2	65.2	65.3	65.6	65.9	66.1	63.5	12
65.5	65.4	65.3	65.4	65.4	65.1	64.9	64.9	65.3	65.2	65.5	65.8	65.7	13
68.0	67.8	67.8	68.3	68.4	68.4	68.5	68.7	68.8	68.7	68.7	69.0	67.7	14
70.6	70.8	71.0	71.2	71.4	71.2	71.1	71.2	71.5	71.5	71.5	71.7	70.6	15
70.5	70.3	70.2	70.2	69.9	69.7	69.6	69.6	69.6	69.4	69.2	69.1	70.5	16
68.8	68.6	68.6	68.5	68.5	68.4	68.2	68.2	68.2	68.2	68.2	68.1	68.6	17
68.8	68.8	68.8	68.8	68.8	68.9	68.9	69.0	69.1	69.2	69.3	69.3	68.7	18
69.9	69.8	69.7	69.4	69.3	69.1	68.7	68.3	68.2	67.9	67.7	67.8	69.3	19
64.4	63.7	63.3	63.1	62.9	62.3	61.9	61.4	61.0	60.6	60.3	59.8	63.8	20
56.6	56.3	56.0	56.1	56.0	55.9	55.8	55.9	55.9	56.0	56.3	56.4	57.0	21
61.0	61.2	61.3	61.5	61.7	61.8	61.8	61.8	61.9	62.1	62.3	62.3	60.1	22
63.1	63.1	63.0	63.0	63.1	63.0	62.8	62.9	63.0	63.0	63.1	63.2	62.9	23
62.3	62.0	61.9	61.9	61.6	61.5	61.4	61.4	61.4	61.4	61.5	61.6	62.3	24
61.8	62.0	62.4	62.7	62.9	63.0	63.2	63.3	63.3	63.4	63.5	63.6	62.3	25
64.2	64.3	64.4	64.5	64.5	64.4	64.5	64.6	64.8	64.9	65.0	65.0	64.1	26
64.4	64.1	63.7	63.3	63.0	62.8	62.4	62.1	61.9	61.7	61.2	61.0	63.8	27
59.7	59.6	59.8	60.0	60.1	60.3	60.5	60.5	60.8	61.0	61.3	61.4	60.1	28
65.2	65.2	65.3	65.7	65.8	66.2	66.7	67.0	67.4	67.6	67.9	68.1	64.9	29
71.5	71.6	71.8	71.9	72.0	72.1	72.2	72.7	72.9	73.1	73.2	73.1	71.1	30
62.09	62.04	62.04	62.06	62.06	62.02	61.98	61.99	62.07	62.10	62.17	62.20	61.93	Mean
62.07	62.00	61.97	61.97	61.95	61.89	61.82	61.81	61.86	61.88	61.92	61.93		Corr.
+ 0.14	+ 0.07	+ 0.04	+ 0.04	+ 0.02	- 0.04	- 0.11	- 0.12	- 0.07	- 0.05	- 0.01	0.00		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1896. MAY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	73.2	73.1	73.2	73.2	73.4	73.5	73.7	73.6	73.6	73.7	73.8	73.6
2	71.4	71.0	70.6	70.2	70.1	69.9	69.7	69.6	69.5	69.3	69.0	68.9
3	68.9	69.0	69.1	69.1	69.2	69.3	69.5	69.5	69.7	69.9	70.2	70.3
4	69.2	69.4	69.4	69.3	69.2	69.3	69.3	69.2	69.1	69.1	69.2	69.2
5	67.7	67.7	67.6	67.4	67.3	67.4	67.5	67.4	67.3	67.4	67.5	67.6
6	69.2	69.4	69.5	69.7	69.8	70.1	70.3	70.4	70.7	71.1	71.3	71.5
7	72.6	72.5	72.6	72.5	72.4	72.3	72.3	72.1	72.1	72.2	72.2	72.2
8	70.1	69.9	69.6	69.1	68.8	68.6	68.3	68.2	67.9	67.6	67.6	67.6
9	65.9	65.6	65.3	65.1	65.1	65.1	65.1	64.9	64.8	64.8	64.9	64.8
10	63.8	63.6	63.4	63.2	63.1	62.9	62.7	62.4	62.3	62.3	62.3	62.3
11	60.6	60.5	60.4	60.3	60.2	60.3	60.4	60.3	60.3	60.5	60.6	60.7
12	61.0	60.9	60.8	60.8	60.8	60.8	60.7	60.7	60.4	60.2	60.0	59.3
13	54.5	54.4	54.3	54.3	54.3	54.4	54.4	54.5	54.5	54.7	54.9	55.1
14	56.7	56.8	56.8	56.8	56.8	57.0	57.3	57.5	57.7	57.9	58.2	59.0
15	66.1	66.7	66.8	67.0	67.2	67.5	67.9	68.2	68.3	68.6	68.9	69.1
16	69.4	69.2	68.9	68.5	68.2	68.0	67.9	67.7	67.2	67.0	66.9	66.7
17	64.7	64.6	64.6	64.7	64.7	64.8	65.0	65.1	65.2	65.4	65.6	65.5
18	64.4	64.2	64.0	64.0	63.6	63.3	62.8	62.4	62.3	61.8	61.6	61.4
19	58.6	58.7	58.9	58.9	59.0	59.1	59.2	59.3	59.5	59.7	59.9	60.1
20	61.1	61.1	61.0	60.6	60.4	60.2	59.9	59.8	59.6	59.4	59.3	59.3
21	59.4	59.5	59.5	59.4	59.0	58.6	58.1	58.0	57.8	57.8	57.7	57.6
22	56.1	55.9	55.7	55.7	55.8	56.1	56.3	56.3	56.1	56.1	55.8	55.9
23	55.1	55.0	54.9	54.9	55.0	55.5	55.9	56.1	56.4	56.9	57.2	57.8
24	60.8	60.7	60.7	60.6	60.3	60.0	59.8	59.5	59.1	58.8	58.5	58.2
25	51.7	51.3	51.0	50.8	50.5	50.1	49.8	49.5	49.0	48.8	48.9	49.0
26	46.5	46.4	46.3	46.1	46.0	45.9	54.4	45.3	45.3	45.4	45.4	45.4
27	44.8	44.9	44.9	45.0	45.0	45.1	54.4	45.8	46.0	46.2	46.3	46.6
28	45.8	45.4	44.9	44.6	44.2	43.8	43.8	43.4	43.2	43.1	43.1	43.1
29	44.9	45.0	45.4	45.7	46.2	46.6	47.3	47.6	48.0	48.1	48.7	48.8
30	50.4	50.5	50.5	50.6	50.7	50.6	50.5	50.6	50.8	50.7	50.7	50.8
31	49.8	49.7	49.6	49.7	49.7	49.8	50.0	50.2	50.4	50.7	51.2	51.3
Mean	60.47	60.41	60.33	60.25	60.19	60.19	60.20	60.16	60.13	60.17	60.23	60.28
Corr.	60.19	60.16	60.10	60.05	60.01	60.04	60.07	60.06	60.05	60.12	60.20	60.28
D. f. m.	+ 0.06	+ 0.03	- 0.03	- 0.08	- 0.12	- 0.09	- 0.06	- 0.07	- 0.08	- 0.01	+ 0.07	+ 0.15



1896. MAY.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
73.3	73.0	72.9	72.9	72.9	72.7	72.4	72.3	72.0	72.0	71.9	71.7	73.0	1
68.8	68.6	68.5	68.7	68.7	68.6	68.5	68.6	68.7	68.7	68.6	68.8	69.3	2
70.2	70.1	69.9	69.6	69.5	69.4	69.3	69.3	69.2	69.2	69.1	69.3	69.5	3
69.2	69.0	69.0	68.8	68.7	68.7	68.1	68.2	68.2	68.1	68.0	67.8	68.9	4
67.7	67.8	67.8	67.7	67.8	68.0	68.1	68.2	68.4	68.6	68.8	68.9	67.8	5
71.7	72.0	72.2	72.3	72.3	72.2	72.2	72.2	72.2	72.2	72.3	72.5	71.3	6
72.1	71.9	71.9	71.7	71.6	71.3	71.1	70.9	70.9	70.7	70.5	70.3	71.8	7
67.4	67.3	67.2	67.1	67.0	66.8	66.6	66.4	66.4	66.2	66.1	66.0	67.7	8
64.7	64.6	64.5	64.5	64.5	64.4	64.2	64.1	64.0	64.0	64.0	63.9	64.7	9
62.1	61.8	61.5	61.5	61.4	61.3	61.2	61.0	60.9	60.8	60.8	60.7	62.0	10
60.7	60.6	60.6	60.7	60.7	60.8	60.8	61.0	61.2	61.1	60.9	61.0	60.6	11
58.7	58.1	57.4	57.1	56.5	56.0	55.5	55.2	55.0	54.8	54.6	54.6	58.3	12
55.4	55.5	55.7	55.8	55.7	56.0	56.2	56.3	56.5	56.5	56.5	56.7	55.3	13
59.4	60.0	60.2	61.0	61.5	62.3	62.8	63.7	64.3	64.8	65.4	65.7	60.0	14
69.4	69.5	69.6	69.7	69.7	69.8	69.9	69.9	70.0	69.9	69.6	69.6	68.7	15
66.4	66.0	65.7	65.6	65.3	65.0	64.7	64.6	64.2	64.4	64.4	64.6	66.5	16
65.3	65.2	65.1	65.1	65.1	65.0	64.9	64.8	64.7	64.6	64.4	64.3	64.9	17
60.9	60.8	60.5	60.2	59.9	59.5	59.1	59.0	58.7	58.5	58.4	58.5	61.2	18
60.3	60.6	60.8	60.8	60.9	60.9	60.9	60.9	61.0	61.1	61.2	61.2	60.1	19
59.2	58.9	58.8	58.6	58.6	58.4	58.2	58.4	58.9	59.0	59.2	59.4	59.5	20
57.5	57.1	57.3	57.5	57.7	57.6	57.3	57.3	57.2	57.0	56.8	56.5	57.9	21
56.0	55.8	55.6	55.4	55.4	55.0	54.8	54.8	54.8	54.9	55.1	55.2	55.6	22
58.0	58.4	59.0	59.2	59.3	59.5	59.7	60.1	60.4	60.5	60.6	60.8	57.8	23
57.6	57.1	56.5	55.8	55.2	54.8	53.8	53.3	52.9	52.2	52.0	51.7	57.1	24
48.8	48.4	48.1	47.9	47.7	47.4	47.1	47.0	46.9	46.9	47.0	46.8	48.8	25
45.4	45.4	45.5	45.4	45.5	45.4	45.3	45.2	45.1	45.0	44.9	44.8	45.5	26
46.7	46.8	47.0	47.0	47.0	46.9	46.8	46.8	46.8	46.7	46.3	46.1	46.1	27
43.1	43.1	43.1	43.1	43.1	43.1	43.2	43.7	43.8	44.0	44.3	44.7	43.8	28
49.0	49.3	49.4	49.4	49.5	49.8	50.1	50.1	50.1	50.1	50.0	50.1	48.3	29
50.8	50.9	51.1	51.0	51.0	50.8	50.6	50.6	50.5	50.4	50.2	50.0	50.6	30
51.5	51.7	51.9	52.1	52.4	52.8	53.2	53.6	54.0	54.1	54.2	54.3	51.6	31
60.24	60.17	60.13	60.10	60.07	60.01	59.89	59.92	59.93	59.90	59.88	59.89	60.13	Mean
60.27	60.22	60.21	60.20	60.20	60.16	60.07	60.12	60.16	60.15	60.16	60.19		Corr.
+ 0.14	+ 0.09	+ 0.08	+ 0.07	+ 0.07	+ 0.03	- 0.06	- 0.01	+ 0.03	+ 0.02	+ 0.03	+ 0.06		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1896. JUNE.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	54.4	54.5	54.5	54.5	54.2	54.1	54.0	53.6	53.2	53.1	52.9	52.4
2	48.8	48.8	48.7	48.7	48.7	48.9	49.1	49.6	49.9	50.7	50.7	51.2
3	56.8	57.2	57.8	58.2	58.5	58.9	59.5	60.0	60.4	61.1	62.1	62.7
4	67.0	67.3	67.5	67.6	68.0	68.2	68.3	68.4	68.7	68.7	68.8	69.0
5	70.4	70.4	70.3	70.2	70.1	70.0	70.0	69.7	69.4	69.3	69.2	69.2
6	67.0	67.0	67.0	66.8	66.8	66.9	67.1	67.2	67.3	67.5	67.8	68.0
7	68.3	68.4	68.3	68.4	68.5	68.8	69.0	69.1	69.1	69.3	69.5	69.6
8	70.0	70.0	69.9	69.7	69.6	69.4	69.3	68.9	68.9	68.8	68.9	69.0
9	68.3	68.3	68.3	68.3	68.3	68.2	68.1	68.0	67.7	67.8	67.8	67.6
10	67.1	67.0	67.0	67.0	67.0	67.0	66.9	66.8	66.7	66.7	66.8	66.9
11	65.8	65.9	66.0	66.0	66.1	66.1	66.2	66.3	66.3	66.5	66.8	67.0
12	68.4	68.2	68.1	68.0	68.0	68.1	68.2	68.1	68.1	68.2	68.2	68.1
13	66.8	66.7	66.5	66.6	66.7	66.8	66.8	66.7	66.7	66.8	66.7	66.7
14	66.6	66.7	66.8	66.8	66.8	66.8	66.8	66.6	66.5	66.6	66.7	66.6
15	65.5	65.4	65.3	65.4	65.4	65.2	65.1	65.0	65.1	65.0	64.8	64.7
16	62.7	62.6	62.4	62.2	62.2	62.2	62.1	62.1	62.2	62.4	62.5	62.3
17	62.8	62.8	62.7	62.9	63.0	63.0	63.0	62.9	62.9	63.0	63.1	63.1
18	61.8	61.8	61.7	61.6	61.5	61.4	61.3	61.3	61.4	61.5	61.7	61.7
19	61.7	61.6	61.6	61.4	61.4	61.4	61.4	61.4	61.2	61.2	61.2	61.2
20	59.0	58.7	58.2	57.8	57.6	57.2	56.9	56.9	56.7	56.5	56.5	56.5
21	56.8	56.8	56.7	56.7	56.7	56.7	56.9	57.0	57.1	57.2	57.3	57.3
22	57.4	57.4	57.4	57.5	57.7	57.9	58.1	58.3	58.5	58.6	58.8	59.1
23	60.4	60.4	60.4	60.3	60.3	60.2	60.2	60.2	60.2	60.3	60.4	60.6
24	61.5	61.6	61.7	61.6	61.5	61.4	61.3	61.3	61.3	61.3	61.2	61.1
25	60.2	60.2	60.1	59.9	59.9	59.9	59.8	59.9	59.9	59.8	59.7	59.7
26	58.4	58.3	58.1	57.8	57.6	57.3	57.2	57.2	57.0	57.0	56.9	56.8
27	56.5	56.4	56.3	56.4	56.5	56.6	56.8	57.0	57.2	57.4	57.6	57.6
28	59.6	59.7	59.8	59.9	59.9	59.8	59.8	59.9	60.0	60.2	60.4	60.4
29	60.3	60.3	60.4	60.3	60.3	60.3	60.3	60.4	60.5	60.6	60.7	60.9
30	61.4	61.4	61.5	61.5	61.4	61.2	61.1	60.9	60.9	61.0	61.1	61.0
Mean	62.39	62.39	62.37	62.33	62.34	62.33	62.35	62.36	62.37	62.47	62.56	62.60
Corr.	62.45	62.45	62.42	62.38	62.38	62.36	62.38	62.38	62.39	62.48	62.57	62.60
D. f. m.	- 0.01	- 0.01	- 0.04	- 0.08	- 0.08	- 0.10	- 0.08	- 0.08	- 0.07	+ 0.02	+ 0.11	+ 0.14

1896. JUNE.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
51.8	51.2	50.5	50.2	49.5	49.3	48.6	48.4	48.3	48.3	48.4	48.5	51.6	1
51.6	51.8	52.4	52.7	52.9	53.0	53.6	54.3	54.8	55.1	55.8	56.1	51.6	2
63.1	63.3	63.9	64.2	64.3	64.4	64.9	65.5	65.8	66.0	66.2	66.7	62.1	3
69.2	69.4	69.6	69.7	69.7	69.7	69.8	69.9	70.1	70.2	70.4	70.5	69.0	4
69.0	68.8	68.7	68.4	68.2	67.8	67.6	67.6	67.4	67.3	67.2	67.2	68.9	5
68.0	67.9	67.8	67.9	67.9	67.9	67.9	67.9	67.9	68.0	68.2	68.2	67.6	6
69.7	69.9	70.0	70.0	70.0	70.0	69.9	70.0	70.0	70.2	70.1	70.0	69.4	7
68.9	68.7	68.6	68.6	68.4	68.4	68.3	68.4	68.2	68.6	68.3	68.3	68.9	8
67.5	67.3	67.5	67.3	67.3	67.2	67.1	67.1	67.1	67.1	67.1	67.1	67.6	9
66.8	66.6	66.6	66.6	66.5	66.3	66.2	66.2	66.2	66.0	65.9	66.7	66.6	10
67.1	67.2	67.2	67.4	67.7	67.7	67.8	67.9	68.1	68.2	68.3	68.4	67.0	11
68.0	67.8	67.7	67.5	67.3	67.1	67.1	67.0	66.8	66.7	66.6	66.7	67.7	12
66.5	66.5	66.4	66.6	66.4	66.4	66.5	66.6	66.6	66.7	66.7	66.7	66.6	13
66.6	66.6	66.6	66.5	66.4	66.3	66.1	66.1	66.1	66.0	66.0	65.7	66.5	14
64.5	64.5	64.4	64.1	63.8	63.7	63.6	63.5	63.3	63.1	63.0	62.9	64.4	15
62.3	62.3	62.3	62.4	62.4	62.3	62.4	62.5	62.6	62.8	62.9	62.9	62.4	16
63.1	62.9	62.7	62.6	62.4	62.4	62.3	62.2	62.2	62.1	62.0	61.8	62.7	17
61.7	61.6	61.5	61.5	61.5	61.3	61.3	61.3	61.5	61.6	61.7	61.8	61.5	18
61.1	61.0	61.0	60.8	60.6	60.6	60.4	60.4	60.2	60.1	59.8	59.5	60.9	19
56.4	56.4	56.4	56.5	56.4	56.5	56.6	56.7	56.8	56.7	56.7	56.7	57.0	20
57.4	57.4	57.5	57.5	57.5	57.5	57.4	57.4	57.5	57.4	57.3	57.3	57.2	21
59.3	59.6	60.2	60.4	60.4	60.5	60.7	60.7	60.7	60.6	60.5	60.4	59.2	22
60.6	60.6	60.7	60.8	61.0	61.1	61.2	61.4	61.5	61.5	61.3	61.4	60.7	23
61.1	61.1	61.1	61.0	60.9	60.7	60.7	60.7	60.6	60.4	60.2	60.2	61.0	24
59.7	59.6	59.6	59.5	59.4	59.3	59.2	59.0	58.8	58.8	58.7	58.5	59.5	25
56.6	56.5	56.4	56.3	56.3	56.2	56.2	56.2	56.2	56.4	56.5	56.5	56.9	26
57.8	57.9	58.0	58.1	58.3	58.4	58.6	58.7	59.0	59.2	59.4	59.5	57.7	27
60.5	60.3	60.3	60.4	60.3	60.2	60.2	60.2	60.2	60.3	60.2	60.2	60.1	28
61.0	61.0	60.9	60.9	61.0	61.1	61.2	61.3	61.4	61.5	61.5	61.5	60.8	29
60.9	60.7	60.4	60.2	60.0	59.8	59.6	59.5	59.5	59.1	58.6	58.4	60.5	30
62.59	62.55	62.56	62.54	62.49	62.44	62.43	62.49	62.51	62.53	62.52	62.54	62.46	Mean
62.58	62.54	62.54	62.52	62.46	62.41	62.39	62.44	62.46	62.47	62.46	62.47		Corr.
+ 0.12	+ 0.08	+ 0.08	+ 0.06	0.00	- 0.05	- 0.07	- 0.02	0.00	+ 0.01	0.00	+ 0.01		D. f. m.

PRESSURE OF THE AIR. { STANDARD GRAVITY.  
SEA-LEVEL.

700 mm. +

1896. JULY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon
1	58.1	57.7	57.4	57.2	57.0	56.7	56.7	56.7	56.8	57.0	57.1	57.2
2	58.6	58.6	58.6	58.6	58.8	59.1	59.4	59.5	59.6	59.7	60.0	60.4
3	60.0	59.6	59.4	58.7	58.4	58.0	57.4	57.1	56.7	56.3	56.1	55.9
4	57.7	57.6	57.6	57.7	57.5	57.3	57.1	57.0	57.0	56.9	57.0	57.1
5	57.8	57.9	58.0	58.1	58.1	58.2	58.4	58.7	59.0	59.2	59.6	60.2
6	63.2	63.4	63.6	63.6	63.6	63.5	63.5	63.7	63.9	63.9	64.2	64.4
7	64.4	64.5	64.4	64.3	64.5	64.4	64.3	64.3	64.4	64.5	64.5	64.7
8	65.0	64.9	64.9	64.8	64.9	65.0	65.0	65.2	65.2	65.3	65.4	65.5
9	65.2	65.2	65.3	65.4	65.4	65.3	65.2	65.2	65.1	65.0	64.9	64.9
10	64.4	64.2	64.0	63.7	63.8	63.8	63.8	63.8	63.7	63.7	63.6	63.5
11	62.7	62.8	62.7	62.8	62.8	62.7	62.7	62.7	62.4	62.2	61.7	61.3
12	56.1	55.4	54.9	54.4	53.7	53.3	52.7	52.5	52.8	53.0	53.1	53.3
13	56.5	56.7	56.9	57.0	57.0	57.0	57.1	57.2	57.4	57.8	57.9	57.8
14	56.6	55.9	55.6	55.1	54.4	54.1	53.7	53.6	53.7	53.9	54.1	54.1
15	54.1	54.1	54.1	54.1	54.1	54.2	54.2	54.3	54.3	54.2	54.2	54.1
16	47.3	47.0	46.5	46.1	45.9	45.7	45.3	45.3	45.3	45.3	45.3	45.4
17	54.3	54.8	55.2	55.4	55.7	55.9	56.1	56.3	56.5	56.6	56.8	56.9
18	54.9	54.1	54.1	53.7	53.3	53.0	52.3	52.1	51.4	51.0	50.7	50.1
19	46.1	46.1	46.1	46.1	46.2	46.3	46.4	46.5	46.5	46.4	46.3	46.3
20	50.1	50.7	51.3	51.6	52.4	52.9	53.7	53.6	54.1	54.8	55.3	55.7
21	60.0	60.3	60.4	60.4	60.5	60.7	60.9	60.8	60.9	61.0	61.4	61.6
22	60.3	60.0	59.9	59.6	59.3	58.9	58.6	58.4	58.0	57.7	57.5	57.4
23	50.6	50.3	49.9	49.8	49.6	49.5	49.3	49.1	49.0	49.0	49.1	49.1
24	52.7	53.0	53.3	53.8	54.3	55.0	55.6	55.9	56.4	57.0	57.6	58.1
25	62.7	62.8	63.0	63.2	63.4	63.4	63.6	63.8	64.0	64.4	64.5	64.5
26	63.4	63.2	63.0	63.0	63.1	63.1	63.1	63.0	62.8	62.7	62.6	62.5
27	63.9	64.2	64.6	64.8	65.3	65.5	65.7	65.8	66.0	66.1	66.2	66.4
28	66.1	66.1	66.1	66.0	65.9	65.9	65.4	65.3	65.1	65.0	65.0	64.7
29	62.1	61.8	61.4	61.3	61.2	60.9	60.9	60.9	60.8	60.7	60.8	60.9
30	60.1	59.8	59.8	59.7	59.6	59.4	59.1	59.1	59.1	59.0	58.8	58.8
31	56.2	56.1	56.0	56.0	55.9	55.9	56.0	56.1	56.2	56.1	56.3	56.5
Mean	58.43	58.35	58.32	58.26	58.25	58.21	58.17	58.18	58.20	58.24	58.31	58.36
Corr.	58.43	58.35	58.32	58.26	58.25	58.21	58.17	58.18	58.20	58.24	58.31	58.36
D. f. m.	+ 0.06	- 0.02	- 0.05	- 0.11	- 0.12	- 0.16	- 0.20	- 0.19	- 0.17	- 0.13	- 0.06	- 0.01

1896. JULY.

700 mm. +

STANDARD GRAVITY. } PRESSURE OF THE AIR.  
SEA-LEVEL.

1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Day.
57.4	57.4	57.4	57.5	57.6	57.7	57.7	57.9	58.1	58.3	58.5	58.5	57.5	1
60.5	60.6	60.8	60.7	60.7	60.7	60.7	60.8	60.7	60.6	60.4	60.2	59.9	2
55.8	55.9	56.2	56.1	56.3	56.4	56.6	56.9	57.0	57.2	57.4	57.5	57.2	3
57.2	57.3	57.4	57.4	57.4	57.5	57.6	57.6	57.6	57.6	57.6	57.7	57.4	4
60.7	61.1	61.4	61.6	61.8	62.1	62.2	62.4	62.6	62.8	63.0	63.2	60.3	5
64.5	64.4	64.4	64.4	64.4	64.3	64.2	64.3	64.5	64.6	64.8	64.3	64.0	6
64.7	64.7	64.7	64.9	64.9	65.0	64.9	65.0	65.1	65.1	65.1	65.2	64.7	7
65.5	65.5	65.5	65.5	65.4	65.4	65.3	65.2	65.2	65.2	65.2	65.2	65.2	8
65.0	65.0	65.0	64.8	64.7	64.7	64.8	64.8	64.9	64.8	64.7	64.6	65.0	9
63.2	63.1	63.0	62.8	62.8	62.8	62.7	62.7	62.8	62.8	62.8	62.8	63.4	10
61.3	61.2	61.1	60.9	60.4	59.9	59.5	59.1	58.5	58.0	57.1	56.6	61.0	11
53.9	54.2	54.6	54.9	55.0	55.4	55.5	55.7	55.9	56.0	56.1	56.5	54.5	12
58.2	58.6	58.8	59.0	58.9	58.8	58.6	58.3	58.2	57.8	57.5	57.1	57.8	13
54.2	54.2	54.2	54.3	54.4	54.4	54.4	54.3	54.2	54.2	54.1	54.1	54.4	14
53.7	53.3	53.1	52.4	51.8	51.2	50.6	50.2	49.4	48.9	48.3	47.7	52.5	15
45.6	45.9	46.3	47.0	47.4	48.1	48.9	49.7	50.9	51.8	52.8	53.4	47.4	16
57.0	57.0	56.9	56.8	56.7	56.5	56.3	56.0	55.9	55.6	55.4	55.1	56.1	17
49.7	48.9	47.9	47.8	47.2	47.0	46.6	46.5	46.3	46.1	46.0	46.0	49.9	18
46.7	46.8	46.9	47.0	47.2	47.4	47.9	48.2	48.5	48.9	49.3	49.6	47.1	19
56.2	56.5	56.8	57.1	57.5	57.7	57.9	58.2	58.5	59.0	59.4	59.8	55.4	20
61.5	61.5	61.4	61.2	61.3	61.2	61.1	61.2	61.2	61.0	60.8	60.6	60.9	21
56.8	55.9	55.0	54.3	53.7	53.5	53.3	53.0	52.2	51.6	51.3	50.9	56.1	22
49.2	49.4	49.6	49.9	50.1	50.2	50.4	50.7	51.1	51.5	51.9	52.3	50.0	23
58.8	59.2	59.6	60.2	60.9	61.1	61.5	62.0	62.4	62.5	62.7	62.6	58.2	24
64.7	64.6	64.6	64.6	64.6	64.5	64.2	64.0	63.9	63.8	63.6	63.6	63.9	25
62.5	62.5	62.6	62.7	62.7	62.7	62.9	63.0	63.0	63.2	63.4	63.6	63.0	26
66.4	66.4	66.4	66.3	66.3	66.1	66.2	66.2	66.2	66.4	66.3	66.3	65.8	27
64.6	64.4	64.1	64.0	63.8	63.7	63.4	63.1	62.7	62.6	62.5	62.3	64.5	28
60.9	60.7	60.5	60.5	60.5	60.6	60.5	60.7	60.8	60.7	60.6	60.5	60.9	29
58.7	58.7	58.3	58.0	57.8	57.6	56.8	56.8	56.7	56.5	56.4	55.3	58.3	30
56.7	56.9	57.0	57.1	57.4	57.6	57.8	58.0	58.1	58.3	58.6	58.8	56.9	31
58.44	58.44	58.43	58.44	58.44	58.44	58.42	58.47	58.49	58.50	58.50	58.45	58.37	Mean
58.44	58.44	58.43	58.44	58.44	58.44	58.42	58.47	58.49	58.50	58.50	58.44		Corr.
+ 0.07	+ 0.07	+ 0.06	+ 0.07	+ 0.07	+ 0.07	+ 0.05	+ 0.10	+ 0.12	+ 0.13	+ 0.13	+ 0.07		D. f. m.

In order to find a formula for the diurnal period of the pressure of the air for the different months, the number designated by D. f. m. in the foregoing tables have been treated by harmonic analysis. The formulae are given below. In the following table the numbers D. f. m. are designated by O, the numbers computed from the formula by C, and their difference by O—C. For the months in which the Fram was drifting in the ice in high latitudes, I have taken the means of 3 (or 2) years. August and September, 1893, during which the Fram sailed along the Siberian Coast, have been treaded separately.

Hour.	August 1893.			September 1893.		
	O	C	O—C	O	C	O—C
1 a. m.	+ 0.06	+ 0.10	— 0.04	— 0.03	— 0.04	+ 0.01
2	+ 0.14	+ 0.16	— 0.02	— 0.11	— 0.10	— 0.01
3	+ 0.21	+ 0.17	+ 0.04	— 0.16	— 0.13	— 0.03
4	+ 0.22	+ 0.15	+ 0.07	— 0.19	— 0.13	— 0.06
5	+ 0.11	+ 0.09	+ 0.02	— 0.11	— 0.12	+ 0.01
6	+ 0.04	+ 0.03	+ 0.01	— 0.04	— 0.09	+ 0.05
7	— 0.04	— 0.04	0.00	— 0.08	— 0.08	0.00
8	— 0.15	— 0.09	— 0.06	— 0.13	— 0.10	— 0.03
9	— 0.10	— 0.13	+ 0.03	— 0.15	— 0.12	— 0.03
10	— 0.10	— 0.16	+ 0.06	— 0.18	— 0.15	— 0.03
11	— 0.09	— 0.17	+ 0.08	— 0.17	— 0.17	0.00
Noon	— 0.17	— 0.16	— 0.01	— 0.12	— 0.16	+ 0.04
1 p. m.	— 0.18	— 0.13	— 0.05	— 0.11	— 0.12	+ 0.01
2	— 0.07	— 0.07	0.00	— 0.07	— 0.05	— 0.02
3	+ 0.06	0.00	+ 0.06	— 0.02	+ 0.02	— 0.04
4	+ 0.10	+ 0.07	+ 0.03	+ 0.06	+ 0.10	— 0.04
5	+ 0.14	+ 0.11	+ 0.03	+ 0.17	+ 0.16	+ 0.01
6	+ 0.15	+ 0.10	+ 0.05	+ 0.22	+ 0.21	+ 0.01
7	0.00	+ 0.06	— 0.06	+ 0.28	+ 0.24	+ 0.04
8	+ 0.01	+ 0.01	0.00	+ 0.22	+ 0.25	— 0.03
9	— 0.06	— 0.05	— 0.01	+ 0.18	+ 0.23	— 0.05
10	+ 0.02	— 0.06	+ 0.08	+ 0.16	+ 0.19	— 0.03
11	+ 0.03	— 0.03	+ 0.06	+ 0.13	+ 0.12	+ 0.01
Midnight	+ 0.02	+ 0.03	— 0.01	+ 0.06	+ 0.04	+ 0.02
Mean			± 0.037			± 0.026

	October 1893, 94, 95.			November 1893, 94, 95.			December 1893, 94, 95.			January 1894, 95, 96.		
Hour	O	C	O-C	O	C	O-C	O	C	O-C	O	C	O-C
1 a. m.	0.00	-0.02	+0.02	-0.07	-0.08	+0.01	+0.03	+0.01	+0.02	-0.06	-0.06	0.00
2	-0.05	-0.07	+0.02	-0.10	-0.10	0.00	+0.03	+0.01	+0.02	-0.06	-0.06	0.00
3	-0.06	-0.09	+0.03	-0.12	-0.11	-0.01	-0.01	+0.01	-0.02	-0.04	-0.06	+0.02
4	-0.10	-0.09	-0.01	-0.13	-0.11	-0.02	-0.01	+0.01	-0.02	-0.07	-0.05	-0.02
5	-0.07	-0.06	-0.01	-0.15	-0.12	-0.03	0.00	+0.01	-0.01	-0.02	-0.04	+0.02
6	-0.04	-0.05	+0.01	-0.11	-0.12	+0.01	+0.01	0.00	+0.01	-0.03	-0.04	+0.01
7	-0.05	-0.05	0.00	-0.11	-0.13	+0.02	+0.03	-0.02	+0.05	-0.07	-0.05	-0.02
8	-0.11	-0.08	-0.03	-0.12	-0.14	+0.02	-0.04	-0.05	+0.01	-0.05	-0.07	+0.02
9	-0.15	-0.13	-0.02	-0.17	-0.13	-0.04	-0.11	-0.06	-0.05	-0.10	-0.08	-0.02
10	-0.18	-0.17	-0.01	-0.14	-0.11	-0.03	-0.09	-0.07	-0.02	-0.09	-0.07	-0.02
11	-0.14	-0.19	+0.05	-0.06	-0.07	+0.01	-0.04	-0.07	+0.03	-0.05	-0.05	0.00
Noon	-0.13	-0.16	+0.03	+0.01	-0.01	+0.02	-0.02	-0.05	+0.03	+0.02	-0.01	+0.03
1 p. m.	-0.08	-0.09	+0.01	+0.05	+0.05	0.00	-0.02	-0.02	0.00	+0.06	+0.03	+0.03
2	-0.04	-0.01	-0.03	+0.10	+0.11	-0.01	-0.01	0.00	-0.01	+0.03	+0.06	-0.03
3	+0.04	+0.07	-0.03	+0.14	+0.16	-0.02	+0.02	+0.02	0.00	+0.06	+0.08	-0.02
4	+0.12	+0.13	-0.01	+0.18	+0.18	0.00	+0.05	+0.04	+0.01	+0.09	+0.09	0.00
5	+0.17	+0.16	+0.01	+0.19	+0.19	0.00	+0.05	+0.04	+0.01	+0.10	+0.09	+0.01
6	+0.18	+0.17	+0.01	+0.17	+0.18	-0.01	+0.03	+0.04	-0.01	+0.08	+0.09	-0.01
7	+0.18	+0.16	+0.02	+0.16	+0.16	0.00	+0.04	+0.04	0.00	+0.09	+0.08	+0.01
8	+0.17	+0.16	+0.01	+0.13	+0.13	0.00	+0.05	+0.03	+0.02	+0.10	+0.07	+0.03
9	+0.16	+0.15	+0.01	+0.08	+0.09	-0.01	+0.03	+0.03	0.00	+0.06	+0.05	+0.01
10	+0.11	+0.13	-0.02	+0.03	+0.04	-0.01	0.00	+0.02	-0.02	+0.01	+0.02	-0.01
11	+0.04	+0.09	-0.05	-0.02	-0.01	-0.01	+0.01	+0.02	-0.01	-0.03	-0.01	-0.02
Midnight	+0.03	+0.04	-0.01	-0.06	-0.05	-0.01	+0.02	+0.01	+0.01	-0.01	-0.04	+0.03
Mean			± 0.019			± 0.012			± 0.016			± 0.016
	February 1894, 95, 96.			March 1894, 95, 96.			April 1894, 95, 96.			May 1894, 95, 96.		
Hour	O	C	O-C	O	C	O-C	O	C	O-C	O	C	O-C
1 a. m.	+0.02	0.00	+0.02	-0.04	-0.04	0.00	0.00	0.00	0.00	+0.06	+0.06	0.00
2	-0.05	-0.06	+0.01	-0.07	-0.06	-0.01	+0.01	+0.01	0.00	+0.07	+0.04	+0.03
3	-0.14	-0.12	-0.02	-0.09	-0.08	-0.01	0.00	+0.02	-0.02	+0.02	+0.02	0.00
4	-0.17	-0.16	-0.01	-0.11	-0.09	-0.02	-0.02	+0.02	-0.04	-0.02	-0.01	-0.01
5	-0.15	-0.17	+0.02	-0.10	-0.11	+0.01	-0.02	0.00	-0.02	-0.05	-0.04	-0.01
6	-0.15	-0.17	+0.02	-0.10	-0.11	+0.01	0.00	-0.02	+0.02	-0.04	-0.06	+0.02
7	-0.15	-0.17	+0.02	-0.09	-0.12	+0.03	-0.02	-0.04	+0.02	-0.03	-0.08	+0.05
8	-0.16	-0.16	0.00	-0.12	-0.12	0.00	-0.05	-0.05	0.00	-0.09	-0.09	0.00
9	-0.15	-0.14	-0.01	-0.17	-0.11	-0.06	-0.10	-0.04	-0.06	-0.12	-0.09	-0.03
10	-0.13	-0.11	-0.02	-0.12	-0.09	-0.03	-0.07	-0.03	-0.04	-0.10	-0.08	-0.02
11	-0.09	-0.07	-0.02	-0.01	-0.05	+0.04	+0.01	0.00	+0.01	-0.04	-0.07	+0.03
Noon	+0.04	-0.01	+0.05	+0.03	-0.01	+0.04	+0.06	+0.01	+0.05	0.00	-0.05	+0.05
1 p. m.	+0.11	+0.06	+0.05	+0.03	+0.03	0.00	0.00	+0.02	-0.02	-0.02	-0.03	+0.01
2	+0.08	+0.12	-0.04	+0.03	+0.07	-0.04	-0.02	+0.02	-0.04	-0.03	-0.01	-0.02
3	+0.10	+0.15	-0.05	+0.06	+0.10	-0.04	-0.03	0.00	-0.03	0.00	+0.01	-0.01
4	+0.14	+0.15	-0.01	+0.12	+0.12	0.00	-0.01	-0.01	0.00	+0.03	+0.02	+0.01
5	+0.20	+0.14	+0.06	+0.17	+0.13	+0.04	+0.01	-0.01	+0.02	+0.06	+0.03	+0.03
6	+0.14	+0.12	+0.02	+0.14	+0.14	0.00	+0.01	0.00	+0.01	+0.06	+0.04	+0.02
7	+0.09	+0.10	-0.01	+0.13	+0.13	0.00	-0.02	+0.01	-0.03	+0.03	+0.05	-0.02
8	+0.09	+0.10	-0.01	+0.09	+0.12	-0.03	0.00	+0.02	-0.02	+0.06	+0.06	0.00
9	+0.13	+0.12	+0.01	+0.06	+0.09	-0.03	0.00	+0.02	-0.02	+0.08	+0.07	+0.01
10	+0.12	+0.13	-0.01	+0.06	+0.06	0.00	0.00	+0.01	-0.01	+0.09	+0.08	+0.01
11	+0.13	+0.11	+0.02	+0.06	+0.02	+0.04	+0.01	+0.01	0.00	+0.09	+0.08	+0.01
Midnight	+0.07	+0.07	0.00	-0.03	-0.01	-0.02	-0.01	0.00	-0.01	+0.08	+0.07	+0.01
Mean			± 0.022			± 0.021			± 0.020			± 0.017

	June 1894, 95, 96.			July 1894, 95, 96.			August 1894, 95.			September 1894, 95.		
Hour	O	C	O-C	O	C	O-C	O	C	O-C	O	C	O-C
1 a. m.	+ 0.07	+ 0.05	+ 0.02	+ 0.04	+ 0.02	+ 0.02	+ 0.06	+ 0.03	+ 0.03	- 0.05	- 0.05	0.00
2	+ 0.05	+ 0.03	+ 0.02	- 0.01	- 0.01	0.00	+ 0.05	+ 0.04	+ 0.01	- 0.03	- 0.03	0.00
3	0.00	0.00	0.00	- 0.04	- 0.03	- 0.01	+ 0.04	+ 0.03	+ 0.01	0.00	0.00	0.00
4	- 0.05	- 0.03	- 0.02	- 0.09	- 0.06	- 0.03	- 0.01	+ 0.01	- 0.02	+ 0.02	+ 0.05	- 0.03
5	- 0.07	- 0.06	- 0.01	- 0.08	- 0.09	+ 0.01	- 0.04	- 0.03	- 0.01	+ 0.08	+ 0.10	- 0.02
6	- 0.07	- 0.08	+ 0.01	- 0.11	- 0.12	+ 0.01	- 0.06	- 0.07	+ 0.01	+ 0.14	+ 0.13	+ 0.01
7	- 0.06	- 0.10	+ 0.04	- 0.16	- 0.15	- 0.01	- 0.11	- 0.11	0.00	+ 0.14	+ 0.14	0.00
8	- 0.09	- 0.10	+ 0.01	- 0.17	- 0.17	0.00	- 0.11	- 0.14	+ 0.03	+ 0.12	+ 0.11	+ 0.01
9	- 0.12	- 0.10	- 0.02	- 0.19	- 0.18	- 0.01	- 0.16	- 0.16	0.00	+ 0.04	+ 0.06	- 0.02
10	- 0.10	- 0.08	- 0.02	- 0.18	- 0.17	- 0.01	- 0.18	- 0.16	- 0.02	- 0.01	0.00	- 0.01
11	- 0.06	- 0.07	+ 0.01	- 0.14	- 0.15	+ 0.01	- 0.15	- 0.15	0.00	- 0.03	- 0.05	+ 0.02
Noon	- 0.02	- 0.05	+ 0.03	- 0.10	- 0.11	+ 0.01	- 0.10	- 0.12	+ 0.02	- 0.07	- 0.07	0.00
1 p. m.	- 0.03	- 0.03	0.00	- 0.06	- 0.06	0.00	- 0.08	- 0.09	+ 0.01	- 0.09	- 0.07	- 0.02
2	- 0.02	- 0.01	- 0.01	- 0.02	0.00	- 0.02	- 0.04	- 0.04	0.00	- 0.07	- 0.05	- 0.02
3	0.00	+ 0.01	- 0.01	+ 0.05	+ 0.06	- 0.01	+ 0.02	+ 0.02	0.00	- 0.02	- 0.01	- 0.01
4	+ 0.04	+ 0.03	+ 0.01	+ 0.13	+ 0.12	+ 0.01	+ 0.08	+ 0.08	0.00	0.00	+ 0.01	- 0.01
5	+ 0.06	+ 0.05	+ 0.01	+ 0.16	+ 0.16	0.00	+ 0.11	+ 0.13	- 0.02	+ 0.01	+ 0.02	- 0.01
6	+ 0.08	+ 0.07	+ 0.01	+ 0.18	+ 0.18	0.00	+ 0.17	+ 0.16	+ 0.01	+ 0.01	+ 0.01	0.00
7	+ 0.07	+ 0.08	- 0.01	+ 0.15	+ 0.18	- 0.03	+ 0.16	+ 0.16	0.00	- 0.02	- 0.01	- 0.01
8	+ 0.09	+ 0.08	+ 0.01	+ 0.17	+ 0.17	0.00	+ 0.16	+ 0.14	+ 0.02	- 0.03	- 0.03	0.00
9	+ 0.10	+ 0.08	+ 0.02	+ 0.15	+ 0.14	+ 0.01	+ 0.11	+ 0.11	0.00	- 0.05	- 0.05	0.00
10	+ 0.08	+ 0.08	0.00	+ 0.10	+ 0.11	- 0.01	+ 0.07	+ 0.07	0.00	- 0.06	- 0.06	0.00
11	+ 0.06	+ 0.07	- 0.01	+ 0.07	+ 0.08	- 0.01	+ 0.04	+ 0.04	0.00	- 0.07	- 0.07	0.00
Midnight	+ 0.07	+ 0.06	+ 0.01	+ 0.03	+ 0.05	- 0.02	+ 0.02	+ 0.03	- 0.01	- 0.07	- 0.06	- 0.01
Mean			± 0.014			± 0.010			± 0.010			± 0.009

The formula is,  $t$  reckoned from Midnight:

$$c = a_1 \cdot \sin(A_1 + t) + a_2 \cdot \sin(A_2 + 2t) + a_3 \cdot \sin(A_3 + 3t).$$

The constants found are

	$a_1$	$A_1$	$a_2$	$A_2$	$a_3$	$A_3$	Mean Latitude.
January 1894, 95, 96	0.081	186° 50'	0.026	299° 45'	0.015	195° 51'	82° 37'
February - - -	0.167	173 53	0.031	64 52	0.029	137 7	82 40
March - - -	0.128	178 26	0.016	305 42	0.007	225 0	82 41
April - - -	0.017	143 12	0.014	36 17	0.017	255 9	82 57
May - - -	0.081	130 23	0.016	49 13	0.002	165 58	83 12
June - - -	0.092	140 3	0.009	51 44	0.004	341 34	83 6
July - - -	0.167	151 53	0.034	297 42	0.001	355 14	82 54
August - - -	0.134	139 0	0.051	299 15	0.016	320 37	81 41
Septbr. - - -	0.055	344 54	0.069	266 2	0.021	108 31	83 7
Octbr 1893, 94, 95	0.149	152 21	0.060	261 12	0.038	132 21	81 51
Novbr. - - -	0.163	186 48	0.037	305 37	0.010	187 16	82 2
Decbr. - - -	0.041	135 18	0.025	315 0	0.008	171 52	82 23
August 1893 . . .	0.092	93 3	0.109	323 46	0.034	3 10	72 40.3
Septbr. - . . .	0.185	152 55	0.080	226 46	0.019	134 34	76 55.1

Taking the means for the dark season, for the sunny season, for the equinoctial months, and for the year, we obtain



	Dark Season. Oct.—Febr.			Sunny Season. Apr.—Aug.			Equinoct. Months. March—Sept.			Year.		
Hour	O	C	O—C	O	C	O—C	O	C	O—C	O	C	O—C
1 a. m.	— 0·02	— 0·02	0·00	+ 0·05	+ 0·04	+ 0·01	— 0·05	— 0·05	0·00	0·00	0·00	0·00
2	— 0·05	— 0·05	0·00	+ 0·03	+ 0·03	0·00	— 0·05	— 0·05	0·00	— 0·01	— 0·02	+ 0·01
3	— 0·08	— 0·08	0·00	+ 0·01	+ 0·02	— 0·01	— 0·05	— 0·04	— 0·01	— 0·04	— 0·03	— 0·01
4	— 0·09	— 0·07	— 0·02	— 0·04	0·00	— 0·04	— 0·04	— 0·02	— 0·02	— 0·06	— 0·04	— 0·02
5	— 0·08	— 0·08	0·00	— 0·05	— 0·03	— 0·02	— 0·01	0·00	— 0·01	— 0·06	— 0·05	— 0·01
6	— 0·06	— 0·08	+ 0·02	— 0·05	— 0·05	0·00	+ 0·02	+ 0·01	+ 0·01	— 0·05	— 0·06	+ 0·01
7	— 0·07	— 0·08	+ 0·01	— 0·07	— 0·08	+ 0·01	+ 0·03	+ 0·01	+ 0·02	— 0·06	— 0·08	+ 0·02
8	— 0·10	— 0·10	0·00	— 0·10	— 0·09	— 0·01	0·00	0·00	0·00	— 0·08	— 0·09	+ 0·01
9	— 0·13	— 0·10	— 0·03	— 0·14	— 0·10	— 0·04	— 0·06	— 0·02	— 0·04	— 0·12	— 0·09	— 0·03
10	— 0·12	— 0·11	— 0·01	— 0·13	— 0·10	— 0·03	— 0·06	— 0·04	— 0·02	— 0·11	— 0·09	— 0·02
11	— 0·08	— 0·09	+ 0·01	— 0·08	— 0·08	0·00	— 0·02	— 0·05	+ 0·03	— 0·07	— 0·08	+ 0·01
Noon	— 0·02	— 0·04	+ 0·02	— 0·03	— 0·06	+ 0·03	— 0·02	— 0·04	+ 0·02	— 0·02	— 0·05	+ 0·03
1 p. m.	+ 0·02	0·00	+ 0·02	— 0·04	— 0·04	0·00	— 0·03	— 0·02	— 0·01	— 0·01	— 0·02	+ 0·01
2	+ 0·03	+ 0·05	— 0·02	— 0·03	— 0·02	— 0·01	— 0·02	+ 0·01	— 0·03	0·00	+ 0·02	— 0·02
3	+ 0·07	+ 0·10	— 0·03	+ 0·01	+ 0·01	0·00	+ 0·02	+ 0·04	— 0·02	+ 0·04	+ 0·05	— 0·01
4	+ 0·11	+ 0·11	0·00	+ 0·05	+ 0·03	+ 0·02	+ 0·06	+ 0·06	0·00	+ 0·08	+ 0·08	0·00
5	+ 0·14	+ 0·13	+ 0·01	+ 0·08	+ 0·06	+ 0·02	+ 0·09	+ 0·07	+ 0·02	+ 0·11	+ 0·10	+ 0·01
6	+ 0·12	+ 0·12	0·00	+ 0·10	+ 0·07	+ 0·03	+ 0·08	+ 0·07	+ 0·01	+ 0·10	+ 0·10	0·00
7	+ 0·11	+ 0·11	0·00	+ 0·08	+ 0·08	0·00	+ 0·06	+ 0·06	0·00	+ 0·09	+ 0·10	— 0·01
8	+ 0·11	+ 0·10	+ 0·01	+ 0·10	+ 0·08	+ 0·02	+ 0·03	+ 0·04	— 0·01	+ 0·09	+ 0·09	0·00
9	+ 0·09	+ 0·08	+ 0·01	+ 0·09	+ 0·07	+ 0·02	+ 0·01	+ 0·02	— 0·01	+ 0·08	+ 0·07	+ 0·01
10	+ 0·06	+ 0·07	— 0·01	+ 0·07	+ 0·06	+ 0·01	0·00	0·00	0·00	+ 0·05	+ 0·05	0·00
11	+ 0·03	+ 0·04	— 0·01	+ 0·05	+ 0·05	0·00	— 0·01	— 0·02	+ 0·01	+ 0·03	+ 0·03	0·00
Midnight	+ 0·01	0·00	+ 0·01	+ 0·04	+ 0·04	0·00	— 0·05	— 0·04	— 0·01	+ 0·01	+ 0·01	0·00
Mean			± 0·010			± 0·014			± 0·013			± 0·010

See Diagrams Pl. II. 2 mm. = 0.1 mm. pressure.

	$\alpha_1$	$A_1$	$\alpha_2$	$A_2$	$\alpha_3$	$A_3$	Mean Latitude.
Dark Season . . .	0·115	170° 58'	0·023	298° 49'	0·013	165° 0'	82° 19'
Sunny Season . . .	0·084	135 24	0·016	325 21	0·006	293 21	82 59
Equinoctial Months .	0·038	188 15	0·041	267 16	0·009	123 48	82 54
Year . . . . .	0·091	159 53	0·022	297 28	0·005	175 13	82 41

The epochs for the maximum and minimum of the 3 periods, corresponding to the values of  $A_1$ ,  $A_2$  and  $A_3$ , are:

	24-hours Period.		12-hours Period. a. m. and p. m.		8-hours Period and + 8 <sup>h</sup> and + 16 <sup>h</sup>	
	Max.	Min.	Max.	Min.	Max.	Min.
January . . . .	5 <sup>h</sup> 33 <sup>m</sup> p.m.	5 <sup>h</sup> 33 <sup>m</sup> a.m.	5 <sup>h</sup> 1 <sup>m</sup>	11 <sup>h</sup> 1 <sup>m</sup>	5 <sup>h</sup> 39 <sup>m</sup> a.m.	1 <sup>h</sup> 39 <sup>m</sup> a.m.
February . . . .	6 24 p.m.	6 24 a.m.	0 50	6 50	6 57 a.m.	2 57 a.m.
March . . . . .	6 6 p.m.	6 6 a.m.	4 49	10 49	5 0 a.m.	1 0 a.m.
April . . . . .	8 27 p.m.	8 27 a.m.	1 47	7 47	4 20 a.m.	0 20 a.m.
May . . . . .	9 19 p.m.	9 19 a.m.	1 22	7 22	6 19 a.m.	2 19 a.m.
June . . . . .	8 53 p.m.	8 53 a.m.	1 17	7 17	2 25 a.m.	6 25 a.m.
July . . . . .	7 52 p.m.	7 52 a.m.	5 5	11 5	2 7 a.m.	6 7 a.m.
August . . . . .	8 44 p.m.	8 44 a.m.	5 2	11 2	2 53 a.m.	6 53 a.m.
September . . .	0 24 a.m.	0 24 p.m.	6 8	12 8	3 9 a.m.	7 9 a.m.
October . . . .	7 50 p.m.	7 50 a.m.	6 17	12 17	7 4 a.m.	3 4 a.m.
November . . .	5 33 p.m.	5 33 a.m.	4 49	10 49	5 50 a.m.	1 50 a.m.
December . . .	8 59 p.m.	8 59 a.m.	4 30	10 30	6 10 a.m.	2 10 a.m.
August 1893	11 48 p.m.	11 48 a.m.	8 12	2 12	1 56 a.m.	5 56 a.m.
September —	7 48 p.m.	7 48 a.m.	7 26	1 26	7 1 a.m.	3 1 a.m.
Dark Season . .	6 36 p.m.	6 36 a.m.	5 2	11 2	6 19 a.m.	2 19 a.m.
Sunny Season .	8 58 p.m.	8 58 a.m.	4 9	10 9	3 28 a.m.	7 28 a.m.
Equinoct. Months	5 27 p.m.	5 27 a.m.	6 5	12 5	7 8 a.m.	3 8 a.m.
Year . . . . .	7 20 p.m.	7 20 a.m.	5 5	11 5	6 7 a.m.	2 7 a.m.

*The 24-hours Period.* The angular constant  $A_1$  lies about  $160^\circ$  (max. hour 7<sup>h</sup> 20<sup>m</sup> p. m.) except in September. Its range  $a_1$  varies between 0.041 mm. and 0.167 mm. and has maxima in February, July and September, and minima in April, September and December.

*The 12-hours Period.* The angle  $A_2$  oscillates around  $297^\circ$  (max. hour 5<sup>h</sup> 5<sup>m</sup>). The general rule, maximum at 10<sup>h</sup> and minimum at 4<sup>h</sup>, is here nearly reversed.

The value of  $a_2$  has a regular annual period, with maxima in February and September, and minima in December and July. The July minimum is the lowest. This corresponds with the general rule, viz. one minimum at the time of the Sun's perigee and one lower minimum at the apogee.

The value of  $a_2$  for the year, 0.022 mm., is rather large for the high latitude of  $82^\circ.7$ .

The 8-hours Period has very variable values for  $A_8$ , and small and varying values for  $\alpha_8$  from month to month. The value for  $\alpha_8$  for the year comes out very insignificant.

### THE ANNUAL PERIOD.

The mean pressure of the air for the different months is shown in the following Table. This also gives the means for each month for 3 or 2 years (August and September, 1893, excluded, as not being included in the drift of the Fram), and the smoothed means ( $\frac{1}{4}(a + 2b + c)$ ) for each month.

Mean Pressure of the air. 700 mm. +

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1893								59.96	54.51	61.85	59.96	73.12
94	61.96	55.42	46.33	62.64	65.68	58.08	56.37	61.16	57.97	56.09	61.28	50.37
95	61.95	70.37	68.28	64.69	58.61	55.15	54.06	61.37	53.80	65.48	55.93	61.32
96	55.39	48.92	60.38	61.93	60.13	62.46	58.37					
Mean	59.77	58.24	58.33	63.09	61.47	58.56	56.27	61.26	55.88	61.14	59.06	61.60
Smoothed	59.84	58.65	59.50	61.47	61.15	58.72	58.09	58.67	58.54	59.30	60.22	60.51
The differences from the mean are												
1893										+ 0.71	+ 0.90	+ 11.52
94	+ 2.19	- 2.82	- 12.00	- 0.45	+ 4.21	- 0.48	+ 0.10	- 0.10	+ 2.09	- 5.05	+ 2.22	- 11.23
95	+ 2.18	+ 12.13	+ 9.95	+ 1.60	- 2.86	- 3.41	- 2.21	+ 0.11	- 2.08	+ 4.34	- 3.13	- 0.28
96	- 4.38	- 9.32	+ 2.05	- 1.16	- 1.34	+ 3.90	+ 2.10					
Mean	$\pm 2.92$	$\pm 8.09$	$\pm 8.00$	$\pm 1.07$	$\pm 2.80$	$\pm 2.60$	$\pm 1.47$	$\pm 0.10$	$\pm 2.08$	$\pm 3.03$	$\pm 2.08$	$\pm 7.68$

The deviation from the mean rises in February and March to 12 mm. and above, in December to upwards of 11 mm.; and the mean deviation reaches to upwards of 7 or 8 mm. in December, February and March. The monthly means computed are consequently very uncertain, and may be rather far from the normal values. Unhappily there are no observations from stations on the Siberian coast, by means of which we can reduce them to normal

values. The change in the geographical position of the Fram has, of course, also some influence upon the change in the pressure of the air from one year to another in the same month.

The smoothed curve gives a maximum of pressure, 761.47 mm., in April, and a second maximum, 760.5 mm., in December. The lowest minimum, 758.09 mm., we find in July, and a somewhat higher minimum, 758.65 mm., in February. The mean for the year is 759.55 mm.

The following Table shows the Maxima and Minima of pressure in the different months.

Month.		Maximum.		Minimum.		Range.
January	1894 . . .	779.5 mm.	Jan. 18. 11 p. m.	746.1 mm.	Jan. 31. noon.	33.4 mm.
	95 . . .	75.3 -	— 28. 5 p. m.	44.5 -	— 12. 8 a. m.	30.8 -
	96 . . .	71.2 -	— 27. 4 p. m.	45.8 -	— 20. 5 a. m.	25.4 -
February	1894 . . .	77.6 -	Febr. 12. 4-5 p. m.	28.2 -	Febr. 20. 21. mnt.	49.4 -
	95 . . .	83.0 -	— 2. mnt. and 3.3 a. m.	53.1 -	— 26. 27. mnt.	29.9 -
	96 . . .	67.7 -	— 20. 9 a. m.	24.1 -	— 22. 10 a. m.	43.6 -
March	1894 . . .	69.2 -	March 12. noon, 1 p. m.	26.0 -	March 2. 3 p. m.	43.2 -
	95 . . .	85.7 -	— 9. 6 p. m.	52.4 -	— 1. 7-8 p. m.	33.3 -
	96 . . .	79.1 -	— 10. 10 a. m.	46.6 -	— 24. 6-7 a. m.	32.5 -
April	1894 . . .	74.7 -	April 29. 5 p. m.	31.0 -	April 2. 1 a. m.	43.7 -
	95 . . .	83.3 -	— 10. mnt.	45.8 -	— 25. 6 a. m.	37.5 -
	96 . . .	71.7 -	— 15-16 mnt., 1 a. m.	50.3 -	— 8. 4 p. m.	21.4 -
May	1894 . . .	78.5 -	May 6. 2.3 a. m.	53.3 -	May 30. 1-10 p. m.	25.2 -
	95 . . .	66.4 -	— 10. 11 a. m.	44.2 -	— 21. 6.7 p. m.	22.2 -
	96 . . .	73.8 -	— 1. 11 a. m.	43.1 -	— 28. 11 a. m.—6 p. m.	30.7 -
June	1894 . . .	66.4 -	June 7. 3-7 a. m.	46.4 -	June 28. 10.11 p. m.	20.0 -
	95 . . .	64.5 -	— 17. 1-2 p. m.	46.8 -	— 6. 1-3 p. m.	17.7 -
	96 . . .	70.2 -	— 7. 10 p. m.	48.3 -	— 1. 9-10 p. m.	21.9 -
July	1894 . . .	64.2 -	July 18. 6 a. m.	45.9 -	July 3. 1 p. m.	18.3 -
	95 . . .	62.2 -	— 5. 1-4 p. m.	27.3 -	— 30. 5 a. m.	34.9 -
	96 . . .	66.4 -	— 27. 0-3 p. m.	45.3 -	— 16. 7-10 a. m.	21.1 -
August	1893 . . .	69.7 -	Aug. 2. 4 a. m.	54.2 -	Aug. 12. 9 p. m.	15.5 -
	94 . . .	68.0 -	— 11. 5 a. m.	52.0 -	— 22. 10 a. m.	16.0 -
	95 . . .	74.1 -	— 14. 5 p. m.	42.4 -	— 21. 9 a. m.	31.7 -
September	1893 . . .	72.6 -	Sept. 25. 7 a. m.	35.5 -	Sept. 9. 3 a. m.	37.1 -
	94 . . .	70.7 -	— 26. 2-7 a. m.	45.1 -	— 8. 4 a. m.	25.6 -
	95 . . .	66.0 -	— 11. 2-5 a. m.	38.5 -	— 17. 5 a. m.	27.5 -
October	1893 . . .	75.6 -	Oct. 14. 8 a. m.	51.3 -	Oct. 20. 3 a. m.	24.3 -
	94 . . .	68.6 -	— 1. 9 p. m.	31.0 -	— 29. 1 a. m.	37.6 -
	95 . . .	78.8 -	— 27. 5 a. m.	40.9 -	— 31. 9 a. m.	37.9 -
November	1893 . . .	70.9 -	Nov. 30. 5-7 p. m.	35.5 -	Nov. 7. 7-8 a. m.	35.4 -
	94 . . .	73.5 -	— 30. 7 and 10 p. m.	48.1 -	— 11. 8-9 p. m.	25.4 -
	95 . . .	80.6 -	— 26. 2.3 a. m.	37.7 -	— 29. 6 a. m.	42.9 -
December	1893 . . .	84.8 -	Dec. 20. 7 p. m.	53.0 -	Dec. 6. 10 p. m.	31.8 -
	94 . . .	73.5 -	— 1. 4 a. m.	27.0 -	— 23. 6 p. m.	46.5 -
	95 . . .	73.1 -	— 22. 7 p. m.	48.9 -	— 28. 8-9 a. m. 2 p. m.	24.2 -

The highest observed pressure is 785.7, mm., March 9, 1895, and the lowest 724.1 mm., February 22, 1896. Total Range 61.6 mm.

## BARIC WIND-ROSES.

The numbers in the following Tables have been computed in the same manner as the numbers of the dynamic Wind-roses (p. 311).

BARIC WIND-ROSES. 700 mm. +

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
1893. October . .	61.2	58.2	65.0	57.0	66.4	71.6	66.5	65.7	64.8	63.7	60.3	59.2	58.5	61.8	62.3	63.2
November . .	59.9	62.1	61.7	59.8	58.2	60.1	60.8	61.2	60.0	58.5	54.5	59.9	57.3	61.4	50.1	58.2
December . .	75.9	73.8	77.0	74.9	76.0	66.5	69.2	72.3	70.9	75.8	82.0	81.4	78.9	77.4	75.7	74.9
1894. January . .	57.9	62.3	59.1	54.2	58.6	59.4	62.0	64.4	62.6	63.1	64.3	63.1	60.8	58.8	58.6	58.4
February . .	62.7	63.6	65.4	60.5	59.9	68.7	63.6	49.3	44.4	48.0	54.0	56.9	42.1	46.8	56.4	54.4
March . . . .	51.5	48.2	49.5	45.7	39.9	38.0	45.1	46.7	47.6	41.3	44.5	49.3	48.5	47.9	41.0	46.4
April . . . .	64.3	65.7	65.7	64.3	65.6	59.7	63.3	63.7	65.1	55.7	48.4	60.9	48.5	49.0	49.3	0
May . . . . .	56.3	58.2	61.0	63.1	66.3	68.6	68.9	68.5	64.5	60.5	64.3	62.7	60.9	62.8	0	58.0
June . . . . .	59.9	56.3	56.4	59.5	60.4	60.4	60.2	59.5	58.7	58.8	55.4	53.9	59.0	58.6	56.6	58.4
July . . . . .	57.9	55.2	55.0	55.2	0	50.2	57.7	57.7	57.6	54.2	55.1	55.2	56.1	57.3	56.8	57.5
August . . . .	61.3	63.2	58.2	57.9	59.4	58.3	61.4	64.7	61.0	64.0	63.4	63.0	62.3	60.0	59.0	59.3
September . .	62.6	59.5	57.6	56.1	57.4	63.6	60.0	53.3	52.6	52.7	47.5	53.2	57.9	56.5	59.5	64.3
October . . . .	59.6	59.8	45.3	47.5	53.6	54.7	55.6	56.5	60.2	58.5	59.3	63.1	63.3	62.1	63.2	61.1
November . .	60.8	58.5	55.0	62.2	66.1	61.2	60.8	62.2	58.4	61.0	61.0	58.5	57.3	63.8	62.3	62.5
December . .	46.7	48.2	51.8	55.2	56.7	53.2	49.9	43.0	47.4	51.1	38.3	34.2	36.1	43.0	43.0	46.8
1895. January . .	61.1	61.1	62.3	58.1	57.7	56.0	62.8	66.8	65.8	65.2	63.5	62.3	54.9	58.1	54.7	56.5
February . .	79.6	81.9	79.4	77.0	75.1	68.8	73.7	69.3	67.0	64.5	62.9	62.5	73.4	82.7	72.2	75.8
March . . . .	58.4	58.4	64.0	65.6	62.2	63.2	65.4	65.6	67.0	75.2	78.2	80.2	82.1	82.7	79.6	0
April . . . . .	58.4	61.1	62.3	69.6	69.7	67.9	66.7	67.9	66.9	70.2	71.0	70.1	66.1	60.1	58.8	55.9
May . . . . .	59.8	61.0	59.0	59.6	60.0	56.9	58.5	60.4	55.7	56.2	54.7	57.3	57.4	58.4	58.7	58.1
June . . . . .	52.9	53.6	53.1	54.4	54.6	54.8	56.9	57.8	50.6	52.6	54.6	55.4	57.0	56.5	56.9	55.7
July . . . . .	56.0	55.2	52.8	51.9	55.7	55.9	57.0	54.1	56.2	53.4	53.6	53.2	49.8	55.1	56.5	53.9
August . . . .	68.2	0	0	59.5	58.9	57.7	59.3	63.5	64.4	55.1	54.3	53.7	57.2	66.8	69.7	69.6
September . .	52.9	55.3	60.6	61.5	53.7	55.5	56.2	53.1	51.3	53.4	50.4	52.8	53.0	50.6	53.6	50.2
October . . . .	55.0	67.9	62.7	61.5	65.2	64.6	68.7	68.6	67.3	71.9	76.7	61.7	63.5	58.5	48.4	60.4
November . .	57.2	62.7	55.3	57.3	55.9	55.7	48.9	56.2	58.0	54.5	54.4	53.5	53.8	51.5	56.6	58.3
December . .	65.6	61.5	59.7	59.7	58.4	59.8	59.1	63.9	66.9	68.2	68.4	62.8	62.1	0	54.4	59.8
1896. January . .	57.3	54.9	52.0	52.3	53.3	53.0	52.1	51.1	55.3	60.9	60.0	60.9	0	58.6	59.0	59.3
February . . .	53.3	46.9	44.0	48.0	53.0	51.4	47.8	52.8	40.2	42.8	37.0	40.4	46.1	50.7	53.6	56.4
March . . . .	60.6	65.1	67.1	69.8	60.8	56.7	57.4	56.8	58.4	57.4	58.4	59.6	64.1	70.6	65.2	61.4
April . . . . .	58.8	64.4	64.9	58.7	61.3	60.3	60.1	60.2	62.1	63.0	62.1	65.6	67.9	68.8	64.9	64.4
May . . . . .	57.8	68.3	67.4	61.2	61.1	62.8	55.1	57.8	53.6	56.7	59.6	59.8	58.1	63.8	60.9	55.6
June . . . . .	62.9	67.6	62.9	60.7	62.3	61.7	62.0	61.9	61.7	62.2	63.8	60.8	63.2	61.6	64.3	61.9
July . . . . .	58.3	59.4	54.6	57.7	57.8	57.2	61.4	61.2	62.5	57.2	56.6	58.0	58.4	54.3	54.1	57.2
August . . . .	52.4	56.7	53.1	56.7	62.9	64.1	64.5	65.4	62.4	62.3	62.7	64.8	61.3	57.8	55.4	57.5

The smoothed means for 3 (or 2) years for the different months are given in the following Table.

BARIC WIND-ROSES. 700 mm. +												
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW
October 1893, 94, 95	61.2	60.8	58.6	57.2	58.0	59.1	61.3	64.0	65.1	65.9	64.4	61.9
November — — —	59.5	59.0	57.6	58.9	60.0	59.5	59.7	60.1	59.6	58.1	57.7	57.8
December — — —	65.5	65.0	62.8	60.3	58.8	58.5	59.3	61.3	64.9	67.1	64.5	56.5
January 1894, 95, 96	58.1	57.3	56.0	55.0	55.4	57.1	59.6	62.0	63.3	63.7	63.4	62.1
February — — —	59.5	61.8	61.5	63.2	65.8	65.1	62.6	57.2	53.8	52.7	52.1	52.2
March — — —	51.7	55.9	60.1	62.1	61.6	60.2	57.6	56.7	58.0	58.4	59.6	62.4
April — — —	61.0	62.7	63.1	63.0	63.0	62.4	63.0	64.4	64.3	64.2	66.0	66.6
May — — —	59.2	62.1	62.9	62.6	63.6	63.6	62.8	61.1	58.9	56.8	58.3	58.9
June — — —	57.9	56.5	55.8	57.6	58.1	58.5	59.0	59.6	59.9	60.1	59.3	58.1
July — — —	56.6	56.0	54.8	54.9	56.3	57.6	58.3	58.7	57.8	55.9	55.1	54.9
August — — —	61.5	58.6	57.0	58.2	59.3	59.9	61.6	63.3	63.0	61.1	59.3	58.8
September 1894, 95	59.5	58.6	58.7	58.6	58.1	58.2	57.4	54.2	52.6	51.9	51.5	52.7

The weighted and smoothed means for the four seasons, for the dark season, for the sunny season and for the equinoctial months, are

BARIC WIND-ROSES. 700 mm. +												
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW
Winter . . . . .	60.7	61.4	60.5	59.6	59.6	59.9	60.2	60.6	61.0	60.5	58.7	56.5
Spring . . . . .	58.5	60.8	62.1	62.1	62.6	62.6	61.3	60.8	60.6	60.5	61.0	61.5
Summer . . . . .	58.4	57.0	56.3	57.0	58.3	58.9	59.5	59.8	59.5	58.5	57.7	57.2
Autumn . . . . .	60.0	59.4	58.5	58.3	58.7	59.3	59.9	60.2	59.9	59.0	58.0	57.3
Dark Season . . .	60.7	61.1	59.6	58.7	59.5	59.7	60.3	61.1	61.5	61.0	59.3	57.4
Sunny „ . . .	59.1	59.7	60.1	60.7	61.7	61.4	61.3	61.6	60.9	59.6	58.7	58.0
Equin. Months . .	55.2	57.2	59.5	60.7	60.7	59.7	57.4	56.0	56.5	56.4	56.1	57.3

	NW	WNW	W	WSW	SW	SSW	WSW	WNW	NW	NNW
October 1893, 94, 95	61.0	60.9	61.0	61.9	64.4	65.9	61.3	60.9	61.0	61.3
November — — —	59.3	58.0	57.6	57.8	57.7	58.1	59.7	58.0	59.3	59.4
December — — —	1.6	60.4	54.6	56.5	64.5	67.1	59.3	60.4	59.3	63.2
January 1894, 95, 96	58.5	58.3	59.2	62.1	63.4	63.7	59.6	58.3	58.0	58.5
February — — —	56.9	54.8	53.0	52.2	52.1	52.7	62.6	54.8	56.0	56.9
March — — —	48.3	49.4	61.7	62.4	59.6	58.4	57.6	56.3	49.4	48.3
April — — —	60.3	60.6	62.3	66.6	66.0	64.2	63.0	60.6	60.5	60.3
May — — —	57.6	59.5	59.2	58.9	58.3	56.8	62.8	60.4	59.5	57.6
June — — —	58.7	58.5	58.4	58.1	59.3	60.1	59.0	58.5	58.5	58.7
July — — —	56.4	55.8	55.0	54.9	55.1	55.9	58.3	55.8	56.4	56.4
August — — —	63.2	62.9	60.1	58.8	59.3	61.1	61.6	61.8	62.9	63.2
September 1894, 95	59.8	54.9	53.6	52.7	51.5	51.9	57.4	54.2	57.8	59.8

The numbers in the baric wind-roses for the individual months run rather irregularly. It is only when we come to the weighted and smoothed numbers for the seasons that we observe something of a general rule. The winter, summer and autumn show minima at about ENE and at W, and maxima at N and S. This is also the rule for the Dark Season and for the Sunny Season. The spring months have minima at NNW (and at S), and maxima at E and WSW. The two equinoctial months differ from each other. March has minima at NNW and at SSE, maxima at ENE and at WSW, while September has its minimum at SW, and maximum at NNW. It is difficult to draw conclusions from the baric wind-roses as to the position and movement of the barometrical minima and maxima in the polar sea. The frequency of the minima of pressure with the winds from W and NE seems to indicate that the tracks of the barometric depressions lie both North and South of the position of the Fram. This question I shall discuss later on from other points of view.

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#### WIND-ROSES FOR THE CHANGE OF PRESSURE.

From the Tables of observation, the number of those cases have been taken out in which the wind-direction has been accompanied by a rise or fall of the barometer. The change of pressure is reckoned from the foregoing to the following observation. The numbers for the intermediate points of the compass have been equally distributed over the neighbouring 16 points. The resulting figures were divided, for each wind-direction, by their sum, so that the figures given in the following Table represent the percentage of cases with rising (+) and decreasing (—) pressure, their sum being 100. The maxima are printed in larger type.

	August 1893.		September 1893.		October 1893, 94, 95.		November 1893, 94, 95.		December 1893, 94, 95.		January 1894, 95, 96.		February 1894, 95, 96.	
	+	—	+	—	+	—	+	—	+	—	+	—	+	—
N	33	67	43	57	<b>68</b>	32	47	53	<b>72</b>	28	58	42	<b>69</b>	31
NE	62	38	34	<b>66</b>	62	38	49	51	60	40	53	47	47	53
E	64	36	35	65	49	51	<b>66</b>	34	55	45	42	58	35	<b>65</b>
SE	55	45	49	51	47	53	53	47	44	56	37	<b>63</b>	51	49
S	30	<b>70</b>	45	55	45	55	37	<b>63</b>	47	53	47	53	55	45
SW	30	<b>70</b>	56	44	32	<b>68</b>	43	57	60	40	49	51	55	45
W	34	66	57	43	39	61	53	47	27	<b>73</b>	53	47	57	43
NW	<b>71</b>	29	<b>74</b>	26	59	41	61	39	52	48	<b>60</b>	40	<b>69</b>	31
	March 1894, 95, 96.		April 1894, 95, 96.		May 1894, 95, 96.		June 1894, 95, 96.		July 1894, 95, 96.		August 1894, 95, 96.		September 1894, 95.	
	+	—	+	—	+	—	+	—	+	—	+	—	+	—
N	<b>87</b>	13	68	32	<b>66</b>	34	54	42	41	59	46	54	<b>73</b>	27
NE	52	48	47	53	47	53	<b>62</b>	38	56	44	50	50	59	41
E	43	57	44	<b>56</b>	39	61	51	49	26	74	39	61	42	58
SE	41	59	48	52	47	53	34	<b>66</b>	25	<b>75</b>	55	45	22	<b>78</b>
S	37	<b>63</b>	62	38	33	<b>67</b>	51	49	32	68	<b>59</b>	41	41	59
SW	63	37	69	31	53	47	38	62	57	43	55	45	62	38
W	58	42	54	46	42	58	42	58	59	41	53	47	67	33
NW	69	31	<b>84</b>	16	39	61	56	44	<b>66</b>	34	37	<b>63</b>	71	29

The pressure rises most frequently with North and NW, and decreases most frequently with South and SE. This would be in accordance with an easterly movement of the barometrical depressions.



## THE TEMPERATURE OF THE AIR.

### THE DIURNAL PERIOD.

For the determination of the diurnal period of the temperature of the air, I have taken the regular readings of the thermometer made each second or fourth hour given in the "observations", and the registrations of the thermograph. The latter were controlled by, and reduced to, the former. In some cases the registered temperatures could serve to correct apparently erroneous readings of the thermometer.

The hours of the thermograph were controlled and verified by simultaneous comparisons between the position of the pen of the thermograph and the reading of the chronometer Hohwü 639 (Vol. II, No. 6, XIX), from which the exact local hour was computed by Prof. Geelmuyden's astronomical tables in Vol. II, No. 6, H., p. 86. The said comparisons were noted at the beginning and the end of the thermograph-sheets for each week, and also in the meteorological journal almost every day. By these means it has been possible to find the exact time for each registered temperature.

On a tracing-paper, laid over the thermograph-sheet, the corrected temperatures observed by the mercury or spirit thermometers in the screen were marked with fine dots in their true place with reference to time and value. The tracing-paper was then moved upon the thermograph-sheet so that the thermograph-curve could interpolate the temperatures corresponding to the intermediate hours between the fixed 2- or 4-hourly thermometric observations.

The thermograph was kept working from the middle of October, 1893, to June 27<sup>th</sup>, 1896. From that day up to the end of July, 1896, the temperature at the odd hours was interpolated from the readings of the thermometers at the even hours. (For July, 1896, every 4<sup>th</sup> hour.)

In some cases, when the screwing of the ice made the registering unreliable, or the thermograph could not be kept going, the intermediate hourly temperatures have been interpolated graphically between the regularly observed temperatures. Such values have been printed in special type.

The hourly temperatures thus found are given in the following tables for the time during which the Fram was drifting in the ice, from the middle of October, 1893, to the end of July, 1896.

For each day are also given the lowest and the highest temperature. The day is reckoned from midnight to midnight. The minimum and maximum temperatures given in the tables are mostly those observed with a minimum or maximum thermometer.

The spirit minimum thermometer and the mercury maximum thermometer were set every day at 8 a. m. and at 8 p. m. Immediately before setting the minimum thermometer, the top of the spirit column and the outer end of the index were read. The first of these readings, compared with the simultaneous corrected reading of the dry thermometer, gave the correction of the minimum thermometer. This correction was applied, and the lowest temperature thus found between midnight and midnight was taken as the day's minimum. When observations with the minimum thermometer were wanting, the minimum adopted has been taken from the corrected thermograph-curve. When the minimum temperature, found from the corrected reading of the minimum thermometer, was higher than the lowest temperature from the corrected thermograph-curve, the latter has been adopted. In some cases the lowest temperature was found at midnight. This minimum temperature has been taken for both the preceding and the following 24 hours.

The maximum thermometers proved to be remarkably correct when compared with the dry thermometer at rising temperatures. When the temperature was below

TEMPERATURE OF THE AIR. C°.

1893. OCTOBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
14	-18.9	-18.5	-19.8	-20.6	-20.2	-19.8	-19.3	-19.2	-19.0	-20.4	-20.2	-20.4	-20.4	-20.4
15	-24.8	-24.4	-24.5	-23.3	-23.9	-22.0	-21.1	-21.8	-19.9	-20.8	-20.8	-19.4	-20.0	-19.2
16	-19.2	-19.9	-20.3	-20.6	-20.0	-19.8	-19.5	-18.0	-17.3	-16.5	-16.3	-16.0	-16.0	-16.0
17	-14.6	-14.3	-14.0	-14.1	-14.2	-14.9	-15.9	-14.8	-14.0	-14.1	-13.3	-13.6	-13.5	-14.7
18	-20.0	-20.9	-19.5	-21.0	-22.8	-24.1	-24.4	-25.5	-25.9	-25.3	-26.0	-25.6	-25.3	-24.5
19	-18.9	-19.4	-19.7	-19.8	-20.4	-20.1	-20.0	-20.5	-21.4	-21.3	-22.5	-23.6	-24.4	-24.3
20	-22.2	-21.7	-21.6	-23.0	-23.0	-22.6	-23.0	-22.4	-21.0	-20.0	-19.1	-19.4	-18.1	-17.2
21	-20.7	-20.5	-20.1	-20.0	-19.4	-19.3	-19.1	-18.5	-18.5	-17.9	-17.9	-19.0	-18.0	-17.5
22	-14.8	-14.7	-15.2	-18.0	-20.0	-21.5	-22.3	-22.3	-21.3	-23.0	-22.8	-22.9	-22.5	-23.0
23	-17.1	-17.3	-17.5	-17.8	-18.0	-18.1	-18.5	-19.4	-20.2	-21.0	-21.9	-22.8	-23.2	-23.4
24	-22.0	-22.2	-22.6	-22.9	-23.3	-23.7	-24.2	-24.7	-25.1	-25.4	-25.3	-26.1	-24.9	-25.7
25	-21.3	-21.3	-20.7	-20.2	-19.5	-19.0	-18.8	-18.1	-17.7	-17.2	-17.1	-16.7	-16.2	-16.0
26	-18.0	-18.0	-18.0	-16.9	-17.1	-17.8	-18.2	-19.7	-20.0	-20.1	-20.6	-20.9	-21.0	-21.2
27	-17.5	-16.5	-16.5	-15.9	-16.3	-16.3	-16.4	-18.3	-18.3	-18.1	-18.5	-19.4	-20.0	-20.1
28	-22.0	-21.9	-22.0	-22.4	-23.0	-22.8	-22.3	-22.3	-22.3	-22.3	-22.3	-23.3	-23.0	-23.0
29	-23.2	-24.2	-24.0	-23.0	-23.0	-23.0	-23.2	-23.3	-22.5	-22.3	-21.9	-21.0	-20.5	-20.5
30	-21.7	-23.0	-24.3	-25.5	-26.1	-26.5	-27.0	-27.3	-28.0	-28.0	-27.5	-27.5	-27.4	-28.1
31	-25.7	-25.8	-26.0	-26.2	-25.9	-24.9	-24.0	-23.5	-23.0	-25.0	-26.0	-25.9	-24.9	-24.4
Mean	-20.15	-20.25	-20.35	-20.62	-20.89	-20.90	-20.05	-21.09	-20.85	-21.04	-21.11	-21.30	-21.07	-21.07
Corr.	-20.25	-20.35	-20.44	-20.70	-20.96	-20.96	-21.00	-21.13	-20.88	-21.06	-21.12	-21.30	-21.06	-21.05
D. f. m.	0.56	0.46	0.37	0.11	0.15	0.15	0.19	0.32	0.07	0.25	0.31	0.49	0.25	0.24

— 28°, the maximum temperatures have been taken from the corrected thermograph-curve.

The tables give the mean temperature of each day, being the mean of the 24-hourly temperatures in the horizontal rows, and the monthly means for each hour being the means of the vertical columns. The mean for the whole month stands as the mean of the numbers in the vertical column headed *Mean*, or of the numbers in the horizontal row of means. The hourly means have been corrected in the usual way<sup>1</sup> for the change due to the variation from the beginning to the end of the month, and reduced to Noon, in order to render them representative of the true diurnal period. The corrected temperatures are given in the tables as "Corr." The last horizontal row gives the difference, "hourly corr. mean minus monthly mean", headed *D. f. m.* (Difference from mean) for each of the 24 hours. This series represents the diurnal period as it is deduced from the observations.

<sup>1</sup> H. Wild. Die Temperaturverhältnisse des Russischen Reiches. Erste Hälfte p. 9.

1893. OCTOBER.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-22.0	-23.3	-23.6	-24.2	-24.7	-24.1	-24.0	-24.4	-24.0	-23.9	-21.47		-18.3	14
-19.1	-19.5	-20.8	-21.0	-20.2	-20.0	-19.7	-18.7	-18.3	-19.0	-20.93	-25.1	-18.3	15
-16.0	-15.9	-15.8	-15.6	-15.3	-15.1	-15.0	-14.9	-14.5	-14.5	-17.00	-20.7	-13.8	16
-14.6	-14.7	-16.2	-17.9	-18.4	-18.8	-19.1	-20.0	-19.8	-20.0	-15.40	-20.0	-13.0	17
-24.1	-23.5	-23.0	-22.0	-21.5	-20.2	-19.5	-19.0	-18.5	-18.9	-22.54	-26.0	-18.5	18
-22.2	-20.5	-18.8	-22.0	-22.7	-23.5	-21.7	-22.1	-23.3	-23.9	-21.54	-25.7	-18.0	19
-16.8	-15.8	-15.7	-15.3	-15.0	-14.8	-15.2	-16.3	-18.7	-20.8	-19.11	-23.9	-14.3	20
-17.8	-17.4	-17.3	-16.3	-15.7	-15.3	-15.3	-15.3	-15.5	-15.3	-17.81	-20.8	-14.6	21
-21.5	-21.0	-20.5	-20.0	-19.3	-18.8	-18.0	-17.9	-17.2	-16.9	-19.81	-23.3	-14.6	22
-23.7	-23.9	-24.0	-24.0	-24.2	-24.3	-23.5	-22.9	-22.0	-21.2	-21.25	-24.3	-16.5	23
-26.0	-25.2	-25.0	-25.1	-25.2	-25.3	-24.2	-23.3	-21.7	-21.2	-24.18	-26.1	-21.2	24
-15.9	-15.4	-15.6	-15.4	-15.6	-15.8	-16.0	-16.1	-17.0	-17.8	-17.51	-21.2	-15.0	25
-21.3	-21.4	-22.1	-22.0	-22.5	-22.7	-23.0	-23.0	-22.5	-19.0	-20.29	-23.0	-15.2	26
-20.2	-21.0	-21.0	-21.2	-22.0	-22.6	-22.9	-22.9	-22.7	-22.9	-19.48	-23.1	-15.6	27
-23.8	-24.6	-24.7	-25.5	-25.0	-24.4	-24.5	-24.0	-23.6	-23.3	-23.26	-25.9	-21.9	28
-20.5	-20.4	-21.0	-21.2	-21.5	-21.3	-20.9	-20.6	-20.1	-20.5	-21.81	-25.3	-19.7	29
-27.9	-28.0	-27.5	-27.5	-26.8	-27.0	-27.0	-26.4	-26.3	-26.0	-26.60	-28.6	-20.5	30
-24.2	-23.0	-22.0	-21.5	-22.0	-22.6	-23.0	-24.0	-24.0	-24.5	-28.41	-27.0	-21.5	31
-20.98	-20.80	-20.81	-20.98	-20.98	-20.92	-20.69	-20.65	-20.54	-20.54	-20.81	-24.12	-17.26	Mean
-20.95	-20.76	-20.76	-20.92	-20.91	-20.84	-20.60	-20.55	-20.44	-20.43				Corr.
-0.14	0.05	0.05	-0.10	-0.10	-0.03	0.21	0.26	0.37	0.38				D. f. m.

TEMPERATURE OF THE AIR. C°.

1893. NOVEMBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-24.5	-24.5	-24.0	-23.8	-23.5	-23.3	-23.1	-23.0	-23.0	-23.5	-24.6	-25.1	-25.2	-25.7
2	-30.2	-30.2	-30.5	-30.2	-30.5	-30.2	-30.7	-31.0	-31.0	-31.0	-31.0	-31.0	-30.8	-31.0
3	-30.3	-30.7	-31.0	-31.3	-31.8	-32.0	-32.5	-33.0	-32.5	-32.3	-33.0	-33.8	-33.7	-33.0
4	-27.9	-27.0	-26.3	-25.7	-25.3	-23.3	-23.0	-23.0	-23.0	-22.0	-20.9	-21.0	-21.9	-22.8
5	-23.9	-23.6	-22.6	-22.2	-22.0	-21.5	-21.0	-21.6	-22.5	-22.3	-21.9	-21.3	-21.0	-21.1
6	-18.5	-18.2	-18.3	-17.5	-20.1	-20.8	-20.2	-19.5	-19.5	-18.3	-19.2	-19.5	-19.0	-18.2
7	-13.0	-12.0	-11.5	-9.8	-9.0	-8.0	-6.8	-6.1	-7.0	-7.0	-7.0	-6.3	-7.0	-8.0
8	-27.7	-28.0	-29.2	-29.9	-30.0	-30.1	-30.3	-30.5	-30.7	-31.2	-31.2	-31.2	-31.3	-31.7
9	-23.8	-23.0	-22.3	-21.6	-21.0	-21.2	-21.9	-21.7	-21.9	-21.7	-21.5	-21.3	-21.2	-21.5
10	-12.1	-12.5	-14.7	-15.6	-16.3	-16.7	-18.3	-19.1	-19.3	-19.8	-19.8	-20.0	-19.9	-19.3
11	-15.7	-16.7	-16.9	-17.0	-17.7	-17.8	-18.1	-18.1	-17.8	-16.5	-15.5	-15.0	-14.8	-14.3
12	-13.9	-13.9	-13.5	-13.4	-14.2	-14.8	-15.8	-16.3	-17.0	-17.6	-18.0	-18.6	-20.7	-21.0
13	-16.2	-17.3	-17.8	-17.0	-18.2	-18.8	-19.2	-19.7	-21.5	-21.7	-23.0	-23.4	-24.0	-24.6
14	-21.6	-22.0	-23.0	-23.7	-23.9	-24.7	-24.5	-25.3	-26.2	-26.9	-26.9	-26.0	-24.7	-24.5
15	-22.3	-21.2	-22.0	-21.2	-21.0	-20.8	-19.8	-19.5	-20.0	-21.0	-20.8	-20.8	-21.0	-21.3
16	-16.3	-16.3	-15.8	-15.4	-15.8	-16.3	-16.6	-15.9	-16.1	-17.0	-17.3	-17.8	-17.8	-17.5
17	-14.9	-15.7	-16.1	-16.4	-17.1	-19.0	-20.7	-21.3	-22.0	-22.2	-22.7	-22.9	-23.0	-23.3
18	-28.0	-28.9	-28.5	-28.4	-28.3	-28.2	-29.5	-29.4	-29.5	-29.8	-29.9	-30.0	-30.0	-30.0
19	-29.1	-28.9	-28.8	-28.9	-28.9	-29.0	-29.0	-29.0	-29.2	-29.7	-29.9	-30.0	-30.0	-30.0
20	-30.0	-29.7	-29.0	-28.3	-27.5	-27.0	-26.7	-26.4	-26.4	-26.0	-26.1	-26.2	-26.2	-26.0
21	-24.8	-24.3	-24.5	-25.1	-26.5	-27.0	-29.0	-29.3	-29.5	-29.5	-30.0	-30.3	-30.3	-30.5
22	-27.6	-27.9	-27.9	-27.6	-28.1	-28.1	-28.3	-28.3	-29.0	-29.0	-29.4	-29.2	-29.0	-29.0
23	-28.3	-28.9	-29.0	-28.7	-28.8	-28.8	-28.1	-28.8	-29.0	-29.0	-29.1	-29.3	-29.0	-29.0
24	-26.1	-25.3	-25.0	-25.1	-26.8	-27.0	-27.5	-27.5	-27.8	-27.5	-27.0	-26.1	-26.5	-26.2
25	-27.4	-27.0	-27.0	-26.9	-26.7	-26.6	-26.7	-25.7	-24.9	-24.9	-26.1	-27.0	-27.1	-27.0
26	-28.3	-28.4	-28.7	-28.7	-28.8	-29.0	-29.1	-29.0	-28.7	-27.0	-25.8	-25.0	-23.8	-23.0
27	-26.3	-27.1	-27.5	-27.3	-27.2	-28.0	-29.0	-29.4	-30.2	-30.7	-30.9	-30.5	-30.7	-31.0
28	-29.0	-28.0	-27.8	-26.7	-26.0	-25.7	-26.0	-24.8	-25.0	-25.0	-26.2	-27.0	-27.0	-27.1
29	-31.9	-32.4	-31.8	-31.4	-30.5	-30.3	-29.8	-29.5	-29.7	-29.9	-30.0	-30.0	-29.9	-29.8
30	-29.2	-28.9	-29.2	-29.3	-29.2	-29.2	-28.4	-27.5	-26.1	-24.6	-24.0	-23.3	-22.7	-22.8
Mean	-23.96	-23.95	-24.01	-23.80	-23.99	-24.11	-24.32	-24.31	-24.53	-24.49	-24.62	-24.63	-24.64	-24.67
Corr.	-23.92	-23.91	-23.98	-23.77	-23.96	-24.09	-24.30	-24.29	-24.52	-24.48	-24.62	-24.63	-24.64	-24.68
D. f. m.	+ 0.44	+ 0.45	+ 0.38	+ 0.59	+ 0.40	+ 0.27	+ 0.06	+ 0.07	- 0.16	- 0.12	- 0.26	- 0.27	- 0.28	- 0.32

1893. NOVEMBER.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-26.0	-26.8	-27.3	-28.2	-28.5	-29.5	-29.7	-29.7	-30.0	-30.5	-25.96	-31.2	-22.8	1
-31.0	-30.7	-30.3	-30.0	-30.0	-30.0	-30.0	-30.0	-30.3	-30.7	-30.51	-31.0	-28.2	2
-33.3	-33.2	-34.2	-34.2	-34.2	-33.0	-31.7	-31.0	-30.0	-29.1	-32.28	-34.4	-29.1	3
-23.3	-23.8	-23.8	-22.3	-21.2	-23.5	-24.2	-24.8	-24.2	-23.8	-23.67	-29.1	-20.9	4
-21.3	-21.3	-21.5	-21.9	-22.2	-22.6	-22.4	-21.9	-20.0	-19.4	-21.97	-24.1	-19.4	5
-17.7	-17.6	-17.3	-16.9	-16.3	-16.1	-15.7	-14.9	-14.0	-13.5	-17.75	-22.0	-13.5	6
-12.0	-15.3	-17.5	-19.0	-21.0	-22.8	-24.0	-24.6	-26.0	-26.3	-13.63	-26.3	-5.0	7
-31.3	-30.6	-29.5	-28.7	-27.7	-27.2	-26.5	-25.8	-25.0	-24.4	-29.13	-32.0	-24.4	8
-22.0	-20.2	-17.4	-16.6	-16.2	-15.0	-12.5	-12.0	-11.2	-11.3	-19.17	-24.4	-10.7	9
-19.0	-18.8	-17.5	-17.7	-17.0	-16.9	-16.7	-16.5	-16.3	-16.1	-17.33	-21.3	-11.3	10
-14.0	-13.7	-14.2	-13.8	-13.8	-14.2	-14.7	-14.2	-14.1	-14.1	-15.50	-19.0	-12.8	11
-21.5	-21.8	-21.0	-20.3	-19.5	-18.6	-17.5	-16.9	-16.1	-15.4	-17.39	-21.8	-13.0	12
-25.6	-25.2	-24.8	-23.9	-23.5	-23.1	-22.4	-22.5	-22.0	-21.4	-21.53	-25.7	-15.4	13
-24.5	-23.8	-24.2	-23.9	-22.4	-22.3	-22.2	-22.8	-22.7	-22.9	-23.98	-26.9	-21.4	14
-21.2	-20.7	-20.0	-19.5	-19.0	-18.6	-18.3	-18.0	-16.8	-16.1	-20.04	-22.9	-16.1	15
-17.0	-16.3	-16.1	-15.8	-15.5	-16.1	-16.3	-15.7	-15.0	-14.5	-16.26	-18.1	-14.2	16
-24.0	-24.2	-24.7	-24.7	-26.0	-26.7	-26.3	-25.5	-26.3	-26.2	-22.16	-26.7	-14.5	17
-30.1	-30.0	-30.1	-29.9	-28.8	-28.3	-28.2	-28.3	-28.8	-28.8	-29.15	-30.5	-26.2	18
-30.5	-30.5	-30.1	-30.5	-30.7	-30.7	-30.8	-30.8	-30.7	-30.2	-29.83	-30.8	-28.8	19
-26.0	-25.8	-25.8	-25.8	-25.7	-25.7	-25.6	-25.4	-25.2	-24.9	-26.56	-30.2	-24.9	20
-30.0	-30.1	-30.2	-29.3	-29.2	-28.7	-28.0	-28.0	-27.4	-27.7	-28.26	-30.5	-24.0	21
-29.0	-29.0	-29.3	-29.0	-28.3	-29.1	-28.9	-28.9	-28.7	-28.4	-28.63	-29.8	-26.6	22
-29.3	-30.0	-30.0	-30.0	-29.6	-29.1	-29.3	-28.7	-27.5	-26.8	-28.92	-30.3	-26.8	23
-27.0	-27.2	-27.3	-27.5	-27.6	-27.5	-27.7	-28.1	-28.0	-27.7	-26.96	-28.1	-24.0	24
-26.8	-26.5	-26.7	-27.0	-26.9	-27.4	-27.3	-28.0	-27.8	-28.3	-26.82	-28.0	-22.1	25
-22.2	-22.2	-22.2	-22.3	-22.5	-23.1	-24.0	-25.6	-26.1	-27.1	-25.86	-30.1	-21.3	26
-31.0	-30.7	-31.0	-31.0	-30.0	-31.0	-31.2	-32.0	-31.8	-30.1	-29.82	-32.9	-26.3	27
-27.5	-27.3	-27.2	-28.2	-28.3	-29.1	-29.0	-27.5	-28.0	-31.0	-27.27	-31.0	-22.9	28
-29.0	-28.9	-28.8	-28.2	-28.2	-29.2	-29.3	-29.3	-29.3	-29.3	-29.85	-32.4	-27.5	29
-23.0	-22.4	-22.0	-21.8	-21.1	-20.4	-20.6	-21.6	-21.3	-21.7	-24.60	-30.0	-19.6	30
-24.87	-24.82	-24.73	-24.60	-24.36	-24.52	-24.37	-24.30	-24.02	-23.92	-24.36	-27.7	-20.46	Mean
-24.88	-24.84	-24.75	-24.62	-24.39	-24.55	-24.40	-24.34	-24.06	-23.97				Corr.
- 0.52	- 0.48	- 0.39	- 0.26	- 0.03	- 0.19	- 0.04	+ 0.02	+ 0.30	+ 0.39				D. f. m.

## TEMPERATURE OF THE AIR. C°.

1893. DECEMBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-21.2	-21.1	-20.3	-20.8	-20.1	-20.0	-21.0	-20.1	-18.9	-17.9	-17.5	-16.9	-17.1	-17.8
2	-26.4	-26.6	-28.0	-26.6	-25.5	-24.9	-23.0	-22.0	-21.9	-21.2	-21.5	-22.0	-22.3	-23.0
3	-30.0	-29.8	-29.2	-28.9	-28.7	-28.8	-28.8	-29.4	-30.0	-30.0	-29.7	-29.9	-29.7	-30.2
4	-29.0	-27.0	-26.5	-27.1	-27.4	-28.6	-28.9	-30.2	-30.2	-30.4	-30.5	-30.8	-30.9	-31.0
5	-33.2	-33.2	-33.2	-33.3	-33.8	-34.0	-34.7	-34.9	-34.9	-34.8	-34.7	-34.7	-34.9	-35.1
6	-34.0	-33.7	-33.3	-33.0	-33.3	-33.3	-34.0	-34.5	-34.5	-34.5	-34.5	-34.2	-34.1	-34.0
7	-28.8	-29.0	-29.0	-29.0	-29.3	-29.5	-29.3	-27.1	-27.5	-29.0	-29.9	-29.5	-29.3	-29.2
8	-33.3	-33.5	-33.5	-33.3	-33.3	-33.2	-33.2	-33.9	-35.0	-35.1	-35.2	-34.8	-34.5	-34.4
9	-34.3	-34.2	-34.3	-34.2	-34.0	-33.8	-33.0	-32.8	-32.7	-32.3	-33.0	-33.2	-32.0	-31.3
10	-29.8	-29.9	-29.9	-29.3	-29.3	-29.3	-29.2	-29.1	-29.2	-29.4	-29.4	-29.2	-27.8	-26.6
11	-25.0	-25.5	-26.0	-26.3	-26.0	-25.6	-24.3	-23.4	-23.0	-22.2	-21.3	-20.1	-19.7	-19.2
12	-25.8	-26.1	-26.5	-27.3	-27.8	-27.9	-28.1	-28.5	-28.8	-29.1	-29.5	-28.9	-28.8	-28.8
13	-23.5	-24.8	-24.5	-24.1	-24.3	-27.4	-28.0	-29.9	-30.9	-31.8	-32.1	-32.7	-33.2	-33.9
14	-34.9	-34.9	-35.0	-35.4	-35.5	-35.4	-35.5	-35.7	-35.5	-35.4	-35.5	-36.1	-35.9	-35.9
15	-28.9	-28.5	-28.0	-27.5	-27.0	-26.1	-25.7	-24.9	-24.9	-24.9	-25.0	-24.7	-24.7	-24.2
16	-21.7	-21.3	-21.0	-20.8	-20.7	-20.7	-20.5	-20.7	-20.7	-20.8	-21.0	-20.8	-20.9	-20.7
17	-22.2	-22.1	-22.3	-22.5	-22.5	-23.0	-23.2	-24.0	-25.0	-24.9	-24.2	-23.4	-22.3	-23.0
18	-19.3	-20.3	-21.0	-21.9	-22.8	-23.2	-23.5	-24.7	-24.7	-24.5	-24.3	-24.0	-24.7	-24.2
19	-24.9	-24.9	-24.8	-25.2	-25.3	-25.5	-26.0	-26.0	-25.8	-26.0	-25.9	-25.9	-25.9	-26.0
20	-29.3	-29.1	-30.2	-30.5	-30.8	-30.9	-31.1	-31.4	-31.9	-32.1	-32.3	-32.7	-33.0	-33.2
21	-30.8	-30.4	-30.1	-29.8	-29.3	-29.7	-30.5	-30.8	-29.3	-29.4	-28.5	-27.8	-27.5	-27.6
22	-27.9	-27.4	-28.3	-28.5	-30.0	-30.5	-30.3	-29.7	-30.3	-31.5	-31.5	-30.8	-30.3	-30.3
23	-33.3	-34.0	-33.5	-33.3	-32.9	-32.8	-32.7	-33.0	-32.6	-32.3	-31.5	-31.0	-30.4	-31.2
24	-34.0	-34.3	-35.0	-35.3	-35.3	-35.9	-35.9	-35.8	-36.0	-36.2	-36.5	-36.2	-36.5	-37.0
25	-37.3	-37.4	-37.5	-37.6	-37.7	-37.4	-37.4	-37.7	-37.9	-37.8	-37.6	-37.8	-37.8	-37.8
26	-36.0	-35.8	-36.0	-37.0	-37.2	-37.5	-38.0	-37.5	-37.0	-36.9	-37.0	-37.0	-37.1	-37.3
27	-37.0	-36.9	-36.5	-36.4	-36.0	-35.6	-35.0	-34.0	-33.3	-32.4	-31.5	-30.7	-30.0	-28.5
28	-20.5	-20.8	-19.8	-18.8	-18.7	-18.5	-20.0	-22.0	-22.2	-21.9	-22.9	-24.3	-25.0	-24.8
29	-18.5	-19.3	-21.0	-22.7	-24.0	-25.0	-25.5	-26.5	-27.0	-27.5	-27.0	-27.4	-27.8	-28.0
30	-29.5	-29.0	-28.5	-28.1	-28.0	-28.0	-28.0	-27.0	-27.0	-28.0	-28.5	-28.5	-28.2	-28.0
31	-28.0	-28.0	-27.8	-27.6	-28.0	-28.2	-28.3	-28.3	-28.2	-28.0	-27.4	-27.1	-26.0	-29.0
Mean	-28.65	-28.67	-28.72	-28.78	-28.85	-29.04	-29.12	-29.21	-29.25	-29.30	-29.25	-29.13	-28.97	-29.07
Corr.	-28.86	-28.86	-28.89	-28.93	-28.98	-29.15	-29.22	-29.29	-29.31	-29.34	-29.27	-29.13	-28.95	-29.03
D. f. m.	+ 0.26	+ 0.26	+ 0.23	+ 0.19	+ 0.14	- 0.03	- 0.10	- 0.17	- 0.19	- 0.22	- 0.15	- 0.01	+ 0.17	+ 0.09

1893. DECEMBER.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-19.0	-19.9	-20.0	-20.8	-21.6	-22.0	-23.2	-24.7	-25.3	-26.3	-20.56	-26.3	-16.2	1
-23.0	-23.3	-24.0	-25.0	-25.0	-26.3	-28.0	-28.3	-29.2	-30.1	-24.88	-30.1	-21.2	2
-31.2	-31.8	-32.1	-32.2	-32.2	-32.6	-32.7	-32.3	-31.8	-31.5	-30.56	-32.9	-28.2	3
-31.0	-31.1	-31.7	-32.0	-32.5	-32.8	-33.0	-33.1	-33.2	-33.2	-30.50	-33.2	-26.3	4
-35.3	-35.6	-35.3	-34.8	-34.3	-33.7	-32.7	-32.2	-32.5	-33.7	-34.15	-35.8	-32.2	5
-33.8	-32.6	-32.0	-31.0	-30.0	-28.9	-28.7	-28.9	-28.8	-28.8	-32.43	-34.5	-28.7	6
-30.6	-31.1	-31.1	-31.1	-31.1	-31.0	-31.4	-31.7	-32.7	-33.2	-30.02	-33.2	-26.0	7
-34.3	-34.4	-35.0	-34.9	-34.7	-34.7	-34.6	-34.7	-34.7	-34.4	-34.28	-35.7	-33.2	8
-31.0	-30.2	-30.1	-30.1	-29.9	-29.3	-29.3	-29.3	-29.5	-29.7	-31.81	-35.7	-29.3	9
-24.8	-24.1	-23.9	-23.4	-22.5	-22.7	-22.5	-22.0	-24.0	-24.5	-26.74	-30.4	-22.0	10
-19.0	-19.5	-21.0	-22.0	-23.3	-24.7	-24.5	-24.7	-24.3	-24.8	-23.14	-26.3	-19.0	11
-28.8	-28.7	-28.5	-28.0	-27.9	-27.5	-26.2	-25.5	-24.2	-23.0	-27.51	-29.6	-23.0	12
-34.2	-34.7	-34.9	-34.9	-35.0	-35.2	-35.0	-35.1	-35.2	-35.0	-31.26	-35.2	-23.0	13
-35.7	-35.5	-35.7	-35.5	-33.7	-32.4	-31.2	-30.9	-29.7	-29.1	-34.42	-36.2	-29.1	14
-24.1	-23.8	-23.4	-23.3	-22.8	-22.6	-22.3	-22.1	-22.0	-21.8	-24.72	-29.1	-21.8	15
-20.5	-20.1	-20.5	-20.8	-21.2	-21.5	-21.8	-21.6	-21.6	-21.6	-20.98	-21.8	-19.2	16
-22.7	-22.3	-21.6	-21.3	-21.1	-20.9	-20.9	-20.5	-20.2	-19.6	-22.32	-25.2	-19.6	17
-24.2	-24.1	-25.0	-25.0	-25.2	-25.3	-26.7	-26.5	-26.2	-26.1	-24.06	-26.7	-18.6	18
-26.2	-27.0	-27.1	-27.5	-27.5	-28.0	-29.0	-29.2	-28.5	-28.6	-26.53	-29.0	-24.3	19
-33.1	-33.5	-33.8	-33.0	-33.9	-33.5	-33.8	-33.2	-32.5	-31.2	-32.08	-33.9	-27.0	20
-29.2	-29.7	-29.1	-28.5	-28.0	-27.5	-27.7	-27.8	-27.4	-27.7	-28.92	-30.8	-27.4	21
-30.8	-30.4	-30.7	-31.4	-32.0	-32.9	-33.0	-32.5	-33.1	-33.1	-30.72	-33.1	-26.4	22
-32.0	-34.3	-34.5	-34.8	-34.9	-34.9	-35.2	-35.0	-34.5	-34.0	-33.28	-36.3	-30.4	23
-36.5	-36.5	-36.5	-37.0	-37.0	-37.0	-37.0	-37.3	-37.8	-37.3	-36.24	-37.8	-33.0	24
-37.8	-37.8	-37.7	-37.5	-37.0	-37.3	-37.0	-35.3	-36.0	-35.9	-37.34	-38.1	-35.3	25
-37.3	-37.4	-37.9	-38.0	-38.1	-38.3	-38.0	-38.0	-38.0	-37.1	-37.31	-38.2	-35.8	26
-28.5	-28.9	-27.0	-25.1	-24.5	-23.2	-22.7	-22.4	-21.9	-21.0	-29.96	-37.1	-21.0	27
-23.6	-22.3	-21.0	-20.0	-19.2	-19.0	-19.0	-18.6	-19.0	-18.9	-20.87	-25.0	-18.5	28
-28.0	-28.6	-29.5	-30.0	-30.1	-30.5	-30.5	-30.5	-30.2	-30.2	-26.89	-30.5	-17.8	29
-27.0	-26.9	-27.3	-28.2	-28.0	-28.4	-28.2	-27.8	-27.7	-27.6	-27.98	-29.5	-26.0	30
-31.0	-32.0	-32.0	-33.6	-34.5	-34.3	-35.0	-35.2	-36.0	-36.0	-30.40	-36.0	-25.6	31
-29.17	-29.29	-29.35	-29.38	-29.31	-29.32	-29.38	-29.25	-29.28	-29.20	-29.12	-32.05	-25.33	Mean
-29.11	-29.21	-29.25	-29.27	-29.18	-29.17	-29.21	-29.06	-29.07	-28.97				Corr.
+ 0.01	- 0.09	- 0.13	- 0.15	- 0.06	- 0.05	- 0.09	+ 0.06	+ 0.05	+ 0.15				D. f. m.

TEMPERATURE OF THE AIR. C°.

1894. JANUARY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-36.0	-36.3	-36.5	-36.7	-36.9	-37.0	-37.0	-37.3	-37.3	-37.5	-37.5	-37.8	-38.0	-38.1
2	-38.0	-38.1	-38.2	-38.2	-38.1	-38.3	-38.5	-38.5	-38.3	-38.3	-38.6	-38.3	-38.2	-38.4
3	-38.8	-38.5	-38.0	-37.8	-37.3	-37.2	-37.5	-37.7	-37.7	-37.5	-37.3	-38.0	-38.3	-38.9
4	-38.5	-38.3	-38.0	-37.3	-37.5	-38.0	-38.2	-38.5	-38.0	-38.5	-38.8	-38.8	-38.5	-38.2
5	-35.0	-35.3	-36.3	-36.2	-37.0	-37.5	-38.5	-38.3	-38.2	-38.0	-38.0	-37.9	-38.2	-38.3
6	-38.3	-38.3	-38.0	-37.4	-36.9	-37.6	-37.7	-37.9	-38.2	-38.2	-38.3	-38.6	-38.3	-38.5
7	-37.8	-37.4	-37.5	-37.4	-37.0	-36.5	-36.5	-36.0	-36.1	-35.9	-36.0	-36.0	-35.5	-35.6
8	-34.0	-34.5	-35.0	-35.5	-35.2	-35.5	-36.0	-36.0	-36.3	-36.5	-37.0	-37.2	-37.6	-38.0
9	-39.3	-39.5	-39.5	-39.5	-39.3	-38.8	-39.0	-39.4	-39.6	-39.9	-39.3	-38.7	-38.4	-38.0
10	-34.6	-34.7	-34.5	-34.3	-33.8	-33.5	-34.3	-35.9	-36.5	-37.3	-37.5	-38.0	-38.8	-39.2
11	-39.5	-39.8	-39.9	-39.5	-40.0	-39.8	-39.2	-40.4	-40.0	-39.9	-39.6	-40.1	-40.0	-40.4
12	-41.2	-41.7	-42.0	-42.0	-41.9	-41.9	-41.2	-40.9	-40.2	-39.6	-38.7	-37.9	-36.3	-35.4
13	-29.9	-29.7	-29.7	-30.0	-30.5	-31.0	-32.1	-32.9	-33.3	-33.8	-34.3	-33.8	-34.5	-35.1
14	-37.8	-38.0	-38.1	-38.1	-38.6	-39.0	-39.2	-39.2	-39.1	-39.1	-39.0	-38.4	-39.0	-39.7
15	-40.0	-40.3	-40.4	-40.9	-40.6	-40.0	-39.6	-39.4	-39.9	-39.7	-39.5	-39.2	-39.0	-39.3
16	-38.5	-39.0	-39.0	-38.9	-39.1	-39.2	-39.2	-39.0	-39.5	-40.6	-39.9	-39.8	-39.5	-39.0
17	-37.7	-38.0	-37.7	-38.0	-38.1	-38.0	-38.0	-38.4	-38.0	-38.1	-37.9	-37.4	-36.4	-36.3
18	-29.5	-29.5	-27.0	-26.3	-26.2	-26.1	-25.8	-26.1	-26.0	-26.0	-25.9	-25.6	-26.0	-26.0
19	-30.2	-30.6	-30.7	-31.6	-31.7	-32.0	-32.0	-32.0	-31.0	-30.7	-31.2	-31.3	-31.0	-30.9
20	-30.0	-29.7	-29.0	-28.7	-28.2	-28.4	-28.3	-27.7	-27.5	-27.5	-27.9	-28.3	-28.1	-28.1
21	-26.4	-27.7	-28.7	-29.1	-29.7	-29.7	-30.0	-30.3	-30.7	-30.8	-31.0	-30.7	-29.7	-30.0
22	-35.3	-34.9	-34.5	-34.1	-34.2	-34.2	-34.0	-33.7	-33.0	-32.7	-31.5	-30.5	-30.0	-28.9
23	-27.2	-28.0	-27.8	-27.1	-26.6	-29.0	-31.2	-32.7	-32.9	-33.0	-33.2	-33.2	-33.8	-34.2
24	-29.7	-29.0	-27.9	-27.6	-27.5	-27.6	-28.9	-30.1	-32.0	-33.2	-33.8	-34.1	-34.6	-34.8
25	-37.1	-37.0	-37.0	-36.7	-36.9	-36.7	-36.6	-36.7	-37.1	-37.3	-37.8	-37.8	-37.3	-37.2
26	-38.0	-37.5	-37.8	-37.7	-37.3	-37.3	-37.1	-37.2	-37.5	-37.7	-37.8	-38.0	-37.8	-38.0
27	-39.0	-40.0	-40.9	-41.5	-41.6	-41.3	-41.7	-41.1	-41.3	-41.2	-41.2	-41.5	-41.6	-40.9
28	-41.1	-41.2	-41.2	-41.1	-41.0	-40.8	-40.6	-40.1	-39.5	-39.0	-38.3	-37.6	-38.0	-38.4
29	-38.0	-38.0	-38.8	-38.3	-37.6	-37.2	-37.0	-37.0	-37.0	-37.7	-38.0	-38.6	-38.5	-39.0
30	-37.3	-36.9	-37.0	-37.1	-36.9	-36.9	-36.6	-36.7	-36.5	-36.3	-36.3	-36.2	-36.5	-36.2
31	-27.8	-27.7	-27.9	-28.1	-28.5	-28.0	-27.6	-27.5	-27.5	-27.3	-27.1	-26.7	-26.9	-27.1
Mean	-35.53	-35.65	-35.63	-35.57	-35.54	-35.61	-35.78	-35.95	-35.99	-36.09	-36.07	-36.00	-35.95	-36.00
Corr.	-35.37	-35.51	-35.50	-35.45	-35.44	-35.52	-35.71	-35.89	-35.95	-36.06	-36.06	-36.00	-35.96	-36.03
D. f. m.	+ 0.35	+ 0.21	+ 0.22	+ 0.27	+ 0.28	+ 0.20	+ 0.01	- 0.17	- 0.23	- 0.34	- 0.34	- 0.28	- 0.24	- 0.31



1894. JANUARY.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-38.0	-38.2	-38.7	-38.7	-38.5	-38.3	-38.3	-38.0	-37.9	-37.8	-37.60	-38.7	-36.0	1
-38.5	-38.7	-38.8	-39.0	-39.0	-39.1	-39.1	-39.3	-39.2	-39.0	-38.57	-39.7	-37.8	2
-39.0	-39.3	-39.5	-39.7	-40.0	-39.5	-39.3	-39.0	-39.0	-39.0	-38.40	-40.0	-36.4	3
-38.0	-36.2	-35.6	-36.0	-35.9	-35.6	-35.3	-35.2	-35.0	-34.6	-37.19	-39.6	-33.5	4
-38.2	-38.4	-38.9	-39.3	-38.3	-38.1	-37.4	-37.3	-37.8	-37.6	-37.67	-39.5	-33.5	5
-38.5	-38.3	-38.3	-38.1	-38.1	-38.3	-38.0	-38.2	-37.8	-37.9	-38.07	-39.2	-36.4	6
-34.8	-33.9	-33.0	-32.5	-32.5	-32.0	-31.5	-32.0	-32.5	-33.5	-34.98	-37.8	-31.0	7
-38.1	-38.5	-39.0	-39.0	-39.2	-39.2	-39.3	-39.0	-38.9	-39.5	-37.25	-39.5	-33.5	8
-37.3	-36.3	-35.5	-35.0	-34.0	-33.7	-33.3	-34.0	-34.5	-34.9	-37.36	-39.9	-33.3	9
-39.0	-39.1	-39.3	-39.1	-38.9	-39.6	-40.0	-40.1	-40.0	-39.9	-37.41	-40.7	-33.5	10
-40.0	-39.9	-40.4	-40.3	-41.1	-41.4	-41.5	-41.0	-41.2	-41.6	-40.27	-42.4	-38.4	11
-35.2	-33.1	-32.3	-31.0	-30.3	-30.5	-30.5	-30.3	-30.3	-29.9	-36.42	-42.4	-29.9	12
-35.8	-36.3	-36.9	-37.2	-37.0	-37.1	-37.3	-37.6	-37.6	-37.4	-34.20	-37.6	-29.0	13
-39.4	-40.0	-40.0	-40.4	-40.3	-40.3	-39.8	-39.8	-40.0	-39.6	-39.25	-40.9	-37.4	14
-39.5	-40.1	-39.1	-39.5	-39.3	-39.3	-39.0	-39.5	-38.5	-38.3	-39.58	-42.4	-37.8	15
-39.0	-38.7	-38.2	-38.0	-37.5	-38.1	-38.1	-38.0	-38.0	-38.0	-38.85	-40.6	-37.0	16
-35.6	-34.9	-34.6	-34.3	-33.9	-33.6	-32.2	-31.2	-30.7	-30.0	-35.79	-38.4	-30.0	17
-26.8	-27.2	-27.2	-27.5	-27.7	-27.8	-28.3	-28.3	-29.8	-30.1	-27.20	-30.1	-24.9	18
-30.0	-29.5	-28.9	-28.9	-29.3	-30.6	-29.7	-29.5	-29.3	-29.8	-30.52	-32.5	-28.0	19
-29.7	-27.9	-28.0	-27.5	-26.9	-27.1	-26.8	-26.3	-26.0	-26.0	-27.90	-30.7	-25.0	20
-30.7	-31.3	-32.0	-32.5	-32.8	-33.0	-33.8	-34.7	-34.3	-35.4	-31.04	-35.4	-26.0	21
-28.5	-27.5	-27.0	-26.5	-25.9	-26.7	-27.0	-26.6	-26.1	-27.6	-30.45	-36.9	-24.9	22
-34.7	-34.9	-34.7	-35.0	-35.1	-34.1	-33.9	-32.0	-31.1	-29.9	-31.89	-35.5	-25.5	23
-35.0	-35.2	-35.7	-36.5	-36.5	-36.7	-36.8	-37.1	-37.0	-37.1	-33.10	-37.1	-26.6	24
-37.3	-37.1	-37.3	-37.6	-37.7	-37.9	-38.8	-38.0	-38.0	-38.0	-37.37	-38.8	-35.8	25
-38.0	-38.1	-38.1	-38.2	-38.2	-39.1	-39.4	-39.2	-38.8	-38.8	-38.03	-39.4	-36.5	26
-41.3	-41.4	-41.3	-41.5	-41.7	-41.5	-41.5	-41.0	-41.8	-41.1	-41.20	-41.8	-38.8	27
-39.0	-39.1	-38.7	-38.8	-39.0	-39.0	-39.1	-39.0	-39.0	-39.1	-39.49	-41.8	-36.8	28
-39.1	-39.5	-40.0	-40.0	-40.5	-40.3	-40.5	-40.5	-39.4	-39.1	-38.73	-40.7	-36.0	29
-35.8	-35.3	-34.3	-33.0	-32.7	-30.1	-29.5	-29.0	-28.5	-27.9	-34.56	-39.1	-27.9	30
-27.0	-27.4	-27.0	-26.7	-26.3	-26.4	-26.0	-25.7	-25.8	-25.3	-27.05	-28.1	-25.3	31
-36.03	-35.84	-35.75	-35.72	-35.62	-35.61	-35.52	-35.37	-35.28	-35.30	-35.72	-38.94	-32.34	Mean
-36.07	-35.90	-35.82	-35.81	-35.72	-35.73	-35.65	-35.51	-35.44	-35.47				Corr.
-0.35	-0.18	-0.10	-0.09	0.00	-0.01	+0.07	+0.21	+0.23	+0.25				D. f. m.

## TEMPERATURE OF THE AIR. C°.

1894. FEBRUARY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-25.3	-25.0	-25.0	-24.8	-24.6	-23.9	-23.9	-23.6	-23.0	-22.0	-21.5	-20.9	-20.7	-20.2
2	-23.0	-23.8	-24.0	-23.1	-23.0	-23.3	-23.6	-23.7	-25.0	-25.6	-26.1	-26.9	-28.0	-29.0
3	-35.4	-36.5	-36.6	-36.7	-37.5	-38.0	-38.4	-38.8	-39.0	-39.7	-40.0	-40.1	-40.5	-40.6
4	-41.7	-40.8	-40.3	-38.9	-39.1	-39.0	-40.0	-40.7	-40.1	-39.9	-39.9	-39.3	-39.0	-39.4
5	-38.3	-38.2	-40.0	-40.7	-41.5	-42.0	-43.0	-44.0	-44.9	-45.0	-46.2	-46.9	-47.1	-47.3
6	-48.0	-48.3	-48.3	-48.4	-48.3	-48.0	-47.7	-47.7	-47.8	-47.8	-46.9	-47.6	-47.8	-47.8
7	-48.6	-48.7	-48.9	-48.9	-49.0	-48.9	-48.9	-49.0	-49.1	-49.3	-49.5	-49.6	-49.6	-49.9
8	-41.3	-40.2	-39.0	-37.5	-37.0	-36.0	-34.7	-33.9	-32.1	-31.3	-31.0	-29.8	-29.0	-28.0
9	-25.7	-26.1	-27.0	-28.1	-29.0	-28.5	-28.1	-27.7	-27.7	-27.6	-28.3	-28.1	-29.0	-29.3
10	-36.2	-36.0	-36.6	-36.9	-37.0	-37.0	-36.9	-36.7	-36.8	-36.5	-36.0	-36.8	-37.0	-37.7
11	-40.8	-40.8	-41.1	-41.2	-41.2	-41.2	-40.9	-41.5	-41.5	-41.6	-42.0	-41.5	-41.2	-41.6
12	-42.8	-42.8	-42.6	-42.5	-42.3	-42.3	-42.5	-42.9	-43.2	-43.5	-43.5	-43.0	-43.0	-42.8
13	-43.9	-43.9	-44.0	-44.7	-44.1	-43.9	-43.0	-42.8	-42.5	-42.3	-42.1	-42.1	-42.0	-41.8
14	-38.8	-37.5	-37.0	-36.7	-36.6	-36.5	-36.8	-36.7	-36.3	-36.1	-37.0	-36.9	-36.2	-36.2
15	-41.0	-40.6	-40.1	-40.3	-40.9	-41.6	-41.9	-42.1	-41.8	-42.0	-42.1	-42.3	-42.0	-42.0
16	-41.6	-42.3	-43.0	-43.7	-43.2	-43.7	-44.0	-44.4	-44.2	-44.7	-44.5	-44.6	-44.2	-44.0
17	-38.3	-37.4	-37.1	-38.5	-39.0	-39.3	-40.2	-40.8	-40.8	-41.0	-41.4	-41.8	-42.0	-42.2
18	-38.9	-38.7	-38.3	-38.1	-39.7	-40.8	-41.8	-42.9	-43.2	-43.4	-43.4	-43.4	-44.0	-44.0
19	-45.5	-45.9	-46.3	-46.1	-45.7	-45.4	-45.0	-44.7	-45.0	-44.0	-44.3	-43.3	-43.2	-43.1
20	-37.3	-36.4	-35.5	-35.4	-35.3	-35.3	-35.1	-35.1	-34.7	-34.9	-34.0	-33.4	-33.8	-34.0
21	-28.4	-28.0	-28.0	-27.3	-28.0	-27.5	-27.0	-26.6	-25.8	-25.8	-25.4	-25.4	-25.6	-25.4
22	-19.3	-19.7	-20.2	-20.5	-20.7	-20.3	-20.0	-19.4	-18.9	-19.1	-19.3	-18.5	-18.0	-18.2
23	-33.9	-33.7	-35.6	-35.9	-36.5	-36.5	-38.2	-38.4	-38.9	-39.1	-39.8	-40.2	-40.7	-41.0
24	-40.4	-40.3	-40.4	-40.1	-40.0	-39.7	-39.7	-39.0	-38.7	-38.6	-38.0	-37.8	-37.8	-37.8
25	-37.7	-36.7	-36.3	-34.6	-33.8	-32.0	-31.8	-32.3	-32.0	-30.5	-29.7	-30.5	-27.0	-25.0
26	-24.7	-24.0	-23.9	-23.4	-23.0	-21.0	-21.0	-20.7	-20.5	-20.0	-19.5	-19.4	-19.0	-19.0
27	-12.6	-12.5	-11.7	-11.2	-11.6	-11.5	-11.1	-10.1	-11.5	-11.4	-11.8	-13.3	-14.4	-15.5
28	-27.0	-27.0	-27.0	-26.7	-25.7	-25.5	-25.3	-25.6	-26.5	-26.4	-26.2	-26.5	-26.5	-26.4
Mean	-35.59	-35.42	-35.49	-35.39	-35.47	-35.31	-35.37	-35.42	-35.41	-35.32	-35.34	-35.35	-35.32	-35.33
Corr.	-35.58	-35.41	-35.48	-35.38	-35.46	-35.31	-35.37	-35.42	-35.41	-35.32	-35.34	-35.35	-35.32	-35.33
D. f. m.	- 0.01	+ 0.16	+ 0.09	+ 0.19	+ 0.11	+ 0.26	+ 0.20	+ 0.15	+ 0.16	+ 0.25	+ 0.23	+ 0.22	+ 0.25	+ 0.24

1894. FEBRUARY.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-20.4	-19.7	-19.5	-20.0	-20.5	-20.5	-20.6	-20.8	-21.5	-21.9	-22.08	-25.3	-18.9	1
-28.0	-27.7	-28.6	-27.4	-26.3	-27.2	-30.5	-32.5	-33.6	-34.8	-26.86	-34.8	-21.9	2
-40.8	-41.1	-41.5	-41.6	-41.8	-42.1	-42.2	-42.8	-42.7	-42.5	-39.87	-43.0	-34.8	3
-40.3	-41.1	-41.0	-40.9	-40.9	-40.5	-40.5	-40.0	-38.8	-38.2	-40.01	-42.5	-38.2	4
-47.7	-47.6	-47.8	-48.0	-48.0	-48.7	-49.0	-49.0	-48.4	-48.3	-45.32	-49.0	-37.0	5
-47.7	-48.0	-47.7	-47.7	-47.5	-47.4	-47.5	-48.0	-48.7	-48.2	-47.87	-49.4	-46.9	6
-49.9	-49.6	-49.8	-49.7	-49.7	-48.7	-46.2	-45.0	-44.0	-42.3	-48.45	-50.0	-42.3	7
-27.0	-26.2	-26.1	-26.1	-26.2	-27.7	-27.2	-27.0	-26.5	-25.8	-31.11	-42.3	-25.8	8
-29.0	-29.0	-30.0	-31.0	-32.3	-33.8	-33.1	-33.3	-34.5	-35.4	-29.65	-35.4	-25.0	9
-38.5	-39.2	-39.8	-39.9	-40.0	-40.0	-40.8	-40.7	-41.5	-41.7	-38.17	-41.8	-36.0	10
-41.5	-43.0	-43.0	-43.3	-43.5	-43.7	-43.7	-43.5	-43.3	-42.8	-42.08	-43.8	-40.8	11
-43.2	-43.8	-44.0	-44.1	-44.2	-44.5	-44.7	-43.7	-44.1	-44.1	-43.34	-44.7	-42.3	12
-41.7	-41.7	-41.2	-41.0	-40.7	-40.4	-40.0	-39.5	-39.0	-38.3	-41.94	-44.7	-38.3	13
-37.7	-38.3	-38.9	-39.0	-39.8	-40.5	-41.0	-41.5	-41.4	-41.6	-38.15	-41.6	-35.4	14
-41.2	-40.5	-39.7	-39.4	-39.3	-39.6	-39.4	-40.0	-40.2	-41.1	-40.88	-42.7	-39.3	15
-44.3	-43.7	-43.5	-42.8	-42.8	-42.6	-41.8	-40.7	-39.3	-38.4	-43.00	-45.4	-38.4	16
-42.0	-42.0	-41.7	-41.2	-41.0	-41.5	-40.5	-39.8	-39.5	-39.1	-40.34	-42.6	-35.9	17
-44.2	-44.5	-44.5	-45.0	-45.3	-45.3	-45.5	-45.9	-45.8	-45.4	-43.00	-45.9	-38.1	18
-42.9	-42.4	-42.4	-42.0	-41.8	-41.5	-40.8	-40.5	-39.3	-38.3	-43.31	-46.7	-38.3	19
-34.2	-34.6	-34.8	-34.7	-34.7	-34.6	-33.0	-32.0	-31.0	-29.6	-34.31	-38.3	-29.6	20
-24.8	-24.2	-23.9	-23.8	-22.9	-21.5	-21.0	-20.4	-19.5	-18.9	-24.80	-29.6	-18.9	21
-18.6	-19.4	-20.0	-22.0	-23.3	-28.9	-30.0	-32.0	-32.8	-33.3	-22.17	-33.3	-17.9	22
-41.3	-41.4	-41.2	-41.0	-40.9	-40.9	-40.7	-40.7	-40.6	-40.6	-39.07	-41.4	-33.7	23
-38.0	-38.5	-38.8	-38.6	-38.6	-39.1	-39.0	-39.0	-38.0	-37.5	-38.89	-40.6	-37.5	24
-24.0	-24.1	-23.5	-24.0	-23.7	-24.1	-24.8	-24.3	-25.0	-24.9	-28.83	-37.7	-22.2	25
-18.0	-17.4	-17.5	-17.3	-16.5	-15.7	-15.0	-14.5	-14.0	-13.6	-19.11	-25.2	-13.6	26
-17.5	-19.1	-20.0	-21.1	-21.9	-23.0	-24.0	-24.7	-25.5	-26.3	-16.89	-26.3	-9.3	27
-26.2	-27.1	-28.0	-28.5	-29.6	-30.2	-29.1	-28.0	-26.5	-24.8	-26.93	-30.2	-24.8	28
-35.38	-35.53	-35.66	-35.75	-35.85	-36.22	-36.13	-36.06	-35.89	-35.63	-35.57	-39.79	-31.47	Mean
-35.38	-35.53	-35.66	-35.75	-35.86	-36.23	-36.14	-36.07	-35.90	-35.64				Corr.
+ 0.19	+ 0.04	- 0.09	- 0.18	- 0.29	- 0.66	- 0.57	- 0.50	- 0.33	- 0.07				D. f. m.

## TEMPERATURE OF THE AIR. C°.

1894. MARCH.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-23.4	-22.0	-21.5	-19.9	-19.8	-20.0	-19.8	-19.3	-19.5	-19.4	-19.5	-19.5	-19.5	-19.6
2	-18.5	-18.7	-20.7	-20.3	-20.5	-20.0	-20.0	-22.2	-23.3	-22.0	-20.8	-20.1	-20.6	-21.2
3	-29.0	-28.1	-28.3	-29.1	-30.1	-32.5	-33.5	-33.2	-32.9	-32.7	-33.5	-33.5	-34.2	-34.8
4	-38.0	-38.0	-38.0	-37.7	-37.5	-37.5	-37.2	-37.2	-36.8	-36.7	-36.5	-36.3	-36.4	-36.2
5	-37.4	-37.7	-38.0	-38.4	-38.3	-38.5	-39.0	-39.8	-40.0	-40.0	-40.0	-40.2	-41.0	-41.8
6	-45.2	-45.4	-45.5	-45.8	-45.2	-45.0	-44.5	-44.7	-44.2	-44.3	-44.3	-44.5	-44.7	-45.1
7	-44.0	-43.7	-43.3	-42.8	-42.8	-42.9	-43.2	-43.4	-43.1	-43.0	-42.9	-42.4	-42.2	-42.5
8	-39.5	-39.0	-38.9	-38.1	-38.3	-38.3	-38.5	-39.1	-39.5	-39.8	-39.0	-40.2	-40.5	-41.2
9	-48.3	-48.2	-48.0	-47.5	-47.9	-48.0	-48.2	-48.5	-48.3	-48.2	-47.9	-47.4	-47.1	-47.0
10	-47.3	-47.2	-47.1	-46.9	-47.0	-47.0	-47.1	-47.2	-46.4	-46.0	-45.6	-45.5	-44.7	-44.3
11	-46.0	-46.0	-46.1	-46.1	-46.7	-47.5	-48.5	-49.2	-50.0	-50.2	-50.4	-50.5	-50.7	-50.8
12	-51.8	-52.0	-52.0	-51.7	-51.3	-50.9	-50.2	-49.4	-48.9	-48.5	-48.2	-48.1	-48.0	-47.5
13	-41.9	-41.3	-40.9	-40.1	-40.1	-40.1	-40.2	-40.2	-40.5	-40.6	-40.6	-40.3	-40.5	-40.6
14	-40.9	-40.8	-40.6	-39.8	-40.0	-40.0	-40.0	-40.1	-40.0	-39.7	-39.4	-38.4	-38.5	-37.5
15	-41.0	-41.0	-41.2	-41.3	-41.6	-41.5	-41.7	-41.8	-41.1	-41.3	-41.0	-40.9	-40.0	-39.7
16	-41.0	-40.9	-40.0	-39.1	-39.3	-39.0	-38.8	-37.2	-36.5	-35.8	-34.8	-34.0	-33.3	-32.6
17	-28.2	-28.5	-28.5	-29.3	-31.0	-32.0	-33.0	-34.0	-35.5	-36.2	-36.8	-37.4	-38.5	-39.5
18	-45.0	-45.2	-45.7	-46.1	-46.5	-46.7	-46.7	-46.5	-46.4	-45.8	-45.5	-45.5	-45.2	-45.1
19	-47.6	-47.5	-47.5	-47.5	-47.2	-47.5	-46.9	-46.1	-45.0	-44.3	-44.0	-43.1	-42.8	-42.6
20	-42.1	-40.6	-38.9	-38.6	-38.4	-37.9	-37.5	-37.1	-36.9	-36.2	-36.2	-35.9	-35.3	-34.6
21	-34.6	-34.2	-34.2	-34.3	-34.1	-34.2	-33.9	-32.2	-31.9	-32.2	-32.0	-32.3	-32.0	-31.8
22	-30.0	-30.0	-29.0	-28.3	-27.2	-28.2	-28.3	-27.9	-26.7	-26.5	-26.2	-26.4	-26.0	-26.0
23	-25.7	-25.8	-26.0	-25.7	-25.0	-24.7	-23.9	-23.0	-22.5	-25.0	-27.0	-28.5	-28.6	-28.9
24	-37.3	-37.5	-37.5	-38.1	-38.0	-38.0	-38.0	-38.1	-37.6	-37.0	-35.8	-35.2	-34.8	-34.7
25	-39.6	-39.6	-40.5	-41.1	-41.0	-41.0	-40.9	-41.1	-40.9	-40.5	-40.3	-40.2	-39.1	-38.9
26	-42.9	-42.7	-43.3	-43.1	-42.9	-42.8	-42.0	-40.8	-39.4	-39.0	-38.0	-37.1	-35.9	-35.9
27	-39.5	-39.4	-39.0	-38.4	-39.0	-38.0	-37.5	-37.1	-37.0	-35.7	-35.3	-35.4	-35.6	-35.6
28	-38.9	-38.5	-38.5	-38.1	-37.4	-37.4	-37.3	-37.0	-36.3	-35.7	-35.0	-34.1	-34.0	-33.4
29	-29.8	-28.9	-29.3	-29.3	-28.7	-28.5	-28.5	-28.4	-27.6	-26.5	-25.4	-24.1	-23.5	-22.6
30	-16.4	-16.3	-16.2	-17.6	-18.2	-20.3	-20.2	-20.3	-22.5	-24.6	-25.3	-25.5	-25.3	-24.9
31	-25.7	-27.0	-28.0	-28.7	-29.7	-30.2	-30.3	-31.2	-32.4	-32.7	-33.0	-33.0	-32.6	-32.4
Mean	-37.31	-37.15	-37.17	-37.06	-37.12	-37.29	-37.27	-37.20	-37.08	-36.97	-36.78	-36.63	-36.49	-36.43
Corr.	-37.44	-37.27	-37.28	-37.16	-37.20	-37.36	-37.33	-37.25	-37.12	-36.99	-36.79	-36.63	-36.48	-36.45
D. f. m.	-0.36	-0.19	-0.20	-0.08	-0.12	-0.28	-0.25	-0.17	-0.04	+0.09	+0.29	+0.45	+0.60	+0.63

1894. MARCH.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-19.8	-19.8	-19.5	-19.5	-19.3	-19.0	-18.9	-18.8	-18.5	-18.5	-19.76	-24.8	-18.5	1
-21.6	-22.6	-24.0	-26.2	-26.9	-26.9	-26.9	-27.5	-28.1	-28.8	-22.85	-28.8	-17.7	2
-35.2	-35.9	-36.3	-36.9	-36.8	-37.1	-37.1	-37.5	-37.5	-38.4	-33.92	-38.4	-28.1	3
-36.0	-36.0	-35.7	-35.8	-36.0	-37.1	-37.0	-37.0	-37.0	-37.1	-36.86	-38.9	-35.3	4
-42.5	-43.2	-43.6	-44.0	-44.2	-44.8	-44.8	-45.0	-45.0	-45.1	-41.35	-45.1	-37.1	5
-45.2	-46.0	-45.8	-46.0	-45.8	-45.9	-45.8	-45.6	-45.0	-44.4	-45.16	-46.3	-44.2	6
-42.3	-42.1	-42.1	-42.0	-42.0	-41.5	-40.7	-40.9	-40.8	-40.3	-43.20	-44.4	-40.3	7
-42.0	-42.6	-45.0	-46.5	-47.5	-48.1	-48.3	-48.5	-48.5	-48.6	-42.31	-48.6	-38.1	8
-46.8	-46.7	-46.5	-46.4	-46.0	-47.1	-47.0	-47.1	-47.2	-47.4	-47.45	-48.6	-46.0	9
-44.0	-45.4	-45.8	-46.0	-45.8	-45.4	-45.8	-46.0	-46.3	-46.4	-46.09	-47.4	-44.0	10
-50.7	-50.5	-50.9	-51.0	-51.2	-51.3	-51.5	-51.7	-51.5	-51.4	-49.60	-51.7	-46.0	11
-47.2	-47.1	-46.8	-46.3	-45.3	-45.4	-44.8	-44.1	-43.5	-42.3	-47.97	-52.0	-42.3	12
-40.6	-40.6	-41.3	-42.0	-42.0	-42.1	-42.0	-42.2	-42.0	-41.1	-40.99	-42.3	-40.1	13
-37.5	-37.5	-37.5	-38.0	-39.2	-39.7	-39.2	-39.2	-39.5	-40.8	-39.33	-41.1	-37.5	14
-39.5	-39.1	-39.5	-39.7	-40.3	-40.8	-40.8	-41.1	-41.0	-41.1	-40.75	-42.1	-39.1	15
-32.0	-31.5	-31.0	-30.8	-30.3	-29.7	-28.9	-28.8	-28.5	-28.2	-34.25	-41.4	-28.2	16
-40.0	-40.6	-41.0	-41.8	-42.2	-42.9	-43.0	-43.5	-43.5	-44.3	-36.30	-44.3	-27.4	17
-44.7	-44.5	-45.0	-46.0	-46.5	-46.7	-47.0	-47.2	-47.5	-47.6	-46.03	-47.6	-44.5	18
-42.4	-42.3	-42.8	-43.2	-43.6	-43.9	-43.9	-44.0	-44.0	-42.3	-44.67	-48.4	-42.3	19
-34.0	-34.0	-33.7	-33.7	-33.5	-33.5	-33.4	-34.0	-33.8	-34.1	-36.00	-42.3	-33.4	20
-31.5	-31.1	-31.4	-31.5	-31.5	-31.8	-31.5	-31.2	-31.2	-30.3	-32.37	-34.9	-30.3	21
-26.3	-26.6	-26.9	-27.0	-27.3	-27.6	-27.2	-27.0	-26.6	-26.3	-27.31	-30.3	-26.0	22
-29.2	-29.6	-30.5	-32.5	-34.0	-34.5	-35.4	-36.0	-36.3	-37.1	-28.98	-37.1	-21.8	23
-34.2	-34.8	-35.0	-35.5	-35.5	-35.4	-35.6	-35.9	-37.7	-38.3	-36.48	-38.3	-34.2	24
-38.7	-38.3	-39.5	-40.5	-41.1	-42.0	-42.0	-42.0	-42.0	-42.4	-40.55	-42.4	-37.3	25
-35.8	-35.2	-35.2	-35.3	-37.6	-38.8	-39.0	-39.3	-39.5	-39.9	-39.23	-43.7	-34.6	26
-35.6	-36.0	-36.6	-37.3	-37.7	-38.5	-38.9	-38.9	-39.0	-38.8	-37.49	-39.9	-34.8	27
-33.8	-33.9	-33.8	-34.0	-34.0	-33.0	-32.7	-31.3	-30.8	-30.5	-34.98	-38.9	-30.5	28
-22.0	-20.9	-19.9	-19.4	-18.2	-17.2	-17.0	-16.4	-16.3	-16.6	-23.54	-30.5	-16.3	29
-24.5	-24.3	-23.6	-23.5	-23.5	-24.6	-24.4	-24.3	-24.3	-25.2	-22.33	-25.7	-15.8	30
-32.0	-31.5	-31.5	-32.0	-32.5	-32.2	-32.3	-32.5	-33.3	-33.8	-31.27	-33.8	-25.2	31
-36.37	-36.46	-36.70	-37.11	-37.33	-37.56	-37.51	-37.56	-37.60	-37.66	-37.08	-40.65	-33.45	Mean
-36.33	-36.41	-36.64	-37.04	-37.25	-37.46	-37.40	-37.44	-37.47	-37.52				Corr.
+ 0.75	+ 0.67	+ 0.44	+ 0.04	- 0.17	- 0.38	- 0.32	- 0.36	- 0.39	- 0.44				D. f. m.

TEMPERATURE OF THE AIR. C°.

1894. APRIL.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-33.8	-33.9	-33.9	-32.3	-32.0	-32.8	-31.8	-30.5	-28.8	-25.9	-25.0	-24.2	-23.0	-21.5
2	-23.0	-24.0	-25.0	-25.7	-26.3	-26.1	-26.8	-24.5	-24.5	-24.0	-24.4	-24.8	-26.9	-27.5
3	-34.7	-35.2	-35.7	-36.5	-36.4	-36.9	-37.0	-36.9	-36.5	-36.4	-35.5	-35.1	-33.0	-32.5
4	-35.5	-35.4	-35.6	-35.4	-33.8	-32.2	-29.0	-27.8	-27.0	-26.0	-25.3	-24.5	-24.8	-25.1
5	-28.6	-28.2	-27.3	-27.2	-26.2	-26.0	-25.5	-25.0	-23.5	-22.5	-21.0	-19.6	-19.4	-19.3
6	-29.3	-31.2	-31.2	-31.1	-30.5	-29.6	-28.7	-28.1	-27.7	-26.5	-26.0	-25.9	-26.0	-25.8
7	-33.7	-33.9	-34.1	-34.0	-34.0	-33.8	-32.2	-30.3	-29.5	-27.2	-26.0	-27.1	-27.0	-27.0
8	-28.1	-29.2	-28.6	-28.1	-27.0	-26.5	-25.5	-25.1	-24.8	-24.3	-24.5	-24.1	-22.5	-22.0
9	-22.7	-21.8	-21.4	-21.1	-20.9	-20.8	-20.9	-20.8	-20.4	-19.5	-18.0	-16.9	-16.3	-17.2
10	-28.2	-28.5	-28.3	-28.4	-28.0	-26.5	-26.1	-24.6	-24.0	-24.0	-23.0	-22.2	-21.8	-21.5
11	-20.5	-20.1	-19.9	-19.5	-19.5	-18.9	-18.7	-18.8	-18.6	-18.2	-18.2	-17.9	-17.9	-18.0
12	-19.1	-18.7	-18.3	-18.2	-18.2	-18.2	-18.0	-18.5	-18.4	-18.5	-18.1	-18.0	-17.9	-18.0
13	-17.8	-18.1	-18.3	-18.6	-18.7	-18.6	-18.5	-18.5	-19.0	-18.9	-18.3	-17.9	-18.0	-18.0
14	-25.0	-27.0	-26.0	-23.5	-22.4	-22.3	-22.1	-20.7	-20.7	-20.0	-19.3	-18.8	-17.5	-18.1
15	-19.3	-19.2	-18.6	-18.3	-17.7	-17.6	-17.4	-16.9	-17.4	-16.9	-16.7	-16.6	-16.4	-16.3
16	-22.5	-20.0	-18.5	-16.9	-16.8	-15.9	-15.3	-15.4	-14.3	-14.0	-14.1	-13.8	-13.7	-14.3
17	-14.9	-15.1	-16.3	-17.8	-18.3	-18.3	-18.3	-18.2	-18.0	-17.5	-17.2	-16.9	-17.0	-17.2
18	-22.5	-23.0	-23.0	-21.6	-21.8	-22.4	-22.5	-22.8	-22.4	-22.0	-21.3	-20.9	-20.5	-20.7
19	-17.5	-17.0	-17.0	-16.8	-16.5	-16.2	-15.8	-15.4	-14.9	-13.9	-13.9	-13.5	-13.3	-13.2
20	-19.7	-20.1	-20.6	-21.2	-21.1	-21.1	-20.3	-21.4	-20.0	-18.0	-19.0	-20.2	-20.2	-20.5
21	-23.8	-23.9	-23.5	-22.1	-21.7	-21.7	-21.5	-21.1	-20.8	-20.0	-19.4	-19.0	-19.2	-19.4
22	-25.1	-25.5	-25.9	-25.2	-25.0	-25.0	-24.7	-24.0	-23.8	-23.3	-22.8	-21.9	-21.4	-21.2
23	-24.0	-24.7	-24.3	-24.1	-23.8	-23.5	-22.8	-22.9	-21.9	-21.2	-20.4	-19.8	-19.3	-18.9
24	-23.1	-23.5	-22.9	-22.7	-22.4	-21.5	-20.9	-20.2	-20.0	-19.0	-18.3	-18.1	-17.8	-17.7
25	-23.0	-23.0	-22.9	-22.8	-21.5	-19.7	-19.1	-17.7	-17.0	-16.0	-16.0	-15.7	-16.0	-15.9
26	-22.5	-23.0	-23.0	-23.0	-22.5	-22.0	-21.7	-20.5	-19.7	-18.9	-18.3	-17.9	-17.7	-17.5
27	-21.7	-18.8	-17.0	-17.4	-17.7	-17.3	-16.8	-15.2	-14.4	-15.5	-15.5	-15.8	-15.2	-14.7
28	-15.0	-15.1	-16.0	-16.2	-15.9	-15.7	-15.3	-15.1	-14.8	-14.5	-14.0	-13.9	-13.5	-13.0
29	-17.0	-17.0	-16.8	-16.8	-16.0	-15.3	-15.2	-14.3	-13.7	-13.0	-12.0	-11.5	-11.1	-11.0
30	-18.0	-18.3	-18.5	-19.0	-18.2	-17.5	-17.0	-15.5	-15.2	-14.4	-14.0	-13.0	-12.2	-12.0
Mean	-23.65	-23.75	-23.61	-23.38	-23.03	-22.66	-22.18	-21.56	-21.06	-20.33	-19.85	-19.52	-19.22	-19.17
Corr.	-23.40	-23.52	-23.41	-23.20	-22.87	-22.52	-22.07	-21.47	-20.99	-20.28	-19.83	-19.52	-19.24	-19.22
D. f. m.	-2.09	-2.21	-2.10	-1.89	-1.56	-1.21	-0.76	-0.16	+0.32	+1.03	+1.48	+1.79	+2.07	+2.09

1894. APRIL.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-21.2	-20.9	-20.5	-20.5	-20.7	-21.1	-21.0	-20.9	-22.0	-22.6	-25.83	-33.9	-20.0	1
-27.7	-28.1	-28.8	-29.4	-30.7	-31.1	-31.8	-32.5	-33.9	-34.3	-27.58	-34.3	-22.6	2
-32.5	-32.4	-32.0	-32.7	-33.0	-33.6	-34.8	-35.0	-35.2	-35.8	-34.80	-37.7	-31.2	3
-25.0	-25.3	-25.3	-25.3	-25.3	-25.3	-25.8	-26.6	-27.3	-28.1	-28.20	-38.3	-24.0	4
-19.1	-19.0	-18.8	-18.7	-19.1	-20.1	-20.7	-21.9	-25.0	-27.5	-22.88	-28.6	-18.3	5
-25.6	-25.8	-25.3	-28.0	-29.5	-30.7	-31.5	-32.0	-32.2	-32.8	-28.79	-32.8	-25.3	6
-26.2	-26.2	-25.5	-25.4	-27.0	-28.3	-28.6	-28.4	-28.0	-27.4	-29.20	-34.6	-25.4	7
-23.2	-24.3	-24.6	-24.5	-24.4	-24.4	-24.2	-24.1	-23.0	-22.9	-25.00	-29.5	-20.0	8
-19.0	-20.0	-21.2	-22.1	-24.0	-25.1	-26.4	-27.0	-27.4	-28.1	-21.63	-28.1	-14.3	9
-20.9	-20.7	-20.4	-20.0	-20.0	-19.9	-20.1	-20.5	-20.6	-20.9	-23.30	-28.5	-19.9	10
-18.1	-18.4	-18.5	-18.7	-19.0	-18.7	-18.5	-18.4	-18.5	-18.4	-18.75	-20.9	-17.5	11
-18.0	-18.1	-18.1	-18.1	-18.1	-18.1	-18.0	-17.9	-17.9	-17.7	-18.17	-19.4	-17.7	12
-18.0	-18.0	-18.7	-19.2	-19.8	-20.8	-21.3	-21.5	-23.0	-24.1	-19.23	-24.1	-17.3	13
-18.6	-18.2	-18.4	-18.9	-19.0	-19.5	-19.6	-19.7	-19.5	-19.8	-20.61	-27.3	-16.5	14
-16.5	-17.4	-19.0	-21.0	-22.9	-23.7	-24.0	-24.1	-25.0	-24.5	-19.31	-25.0	-15.7	15
-14.4	-14.6	-15.1	-15.5	-15.1	-15.0	-15.0	-15.0	-14.9	-14.7	-15.62	-25.6	-13.0	16
-17.3	-17.8	-18.2	-19.3	-19.0	-19.6	-20.2	-20.8	-21.2	-21.7	-18.17	-21.7	-14.5	17
-20.2	-19.7	-19.3	-18.5	-18.5	-18.4	-18.2	-18.2	-18.2	-17.9	-20.58	-23.7	-17.9	18
-13.7	-14.1	-14.4	-14.5	-14.9	-16.4	-16.2	-15.0	-15.5	-18.0	-15.32	-18.0	-12.8	19
-21.0	-20.9	-22.3	-22.5	-21.7	-22.0	-22.8	-23.0	-23.0	-23.3	-21.08	-23.3	-18.0	20
-19.5	-19.7	-20.6	-21.6	-22.0	-22.6	-23.1	-23.8	-24.2	-24.9	-21.63	-24.9	-18.0	21
-20.4	-20.5	-20.3	-20.8	-21.1	-22.8	-22.8	-23.1	-23.5	-23.9	-23.08	-25.9	-19.8	22
-18.5	-18.2	-18.3	-19.0	-20.0	-20.3	-20.5	-21.7	-22.3	-22.8	-21.38	-24.9	-17.7	23
-18.3	-18.9	-19.0	-19.4	-20.3	-20.8	-21.1	-21.7	-22.7	-23.0	-20.55	-23.5	-17.0	24
-16.1	-16.2	-16.1	-16.9	-18.4	-19.5	-20.2	-20.8	-21.6	-21.9	-18.92	-23.4	-15.0	25
-17.0	-16.9	-17.0	-17.5	-18.0	-18.8	-19.5	-20.3	-21.1	-22.0	-19.85	-23.0	-16.5	26
-14.7	-14.7	-14.0	-13.9	-14.0	-14.2	-14.0	-14.0	-14.3	-14.4	-15.63	-21.7	-13.5	27
-12.5	-12.3	-12.0	-12.5	-13.7	-14.5	-15.0	-15.4	-16.5	-17.2	-14.57	-17.2	-11.3	28
-11.0	-11.0	-11.2	-12.0	-13.5	-14.2	-15.0	-16.0	-17.0	-17.8	-14.14	-18.9	-10.0	29
-12.0	-12.6	-13.0	-13.7	-14.5	-15.0	-15.9	-16.1	-16.8	-17.6	-15.42	-19.0	-11.7	30
-19.21	-19.36	-19.53	-20.00	-20.57	-21.15	-21.53	-21.85	-22.38	-22.87	-21.31	-25.92	-17.75	Mean
-19.28	-19.45	-19.64	-20.14	-20.73	-21.33	-21.73	-22.08	-22.63	-23.14				Corr.
+ 2.03	+ 1.86	+ 1.67	+ 1.17	+ 0.58	- 0.02	- 0.42	- 0.77	- 1.32	- 1.83				D. f. m.

TEMPERATURE OF THE AIR. C°.

1894. MAY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-18.2	-18.5	-18.1	-18.5	-19.1	-17.7	-17.3	-16.5	-15.9	-15.0	-14.6	-14.0	-14.0	-13.9
2	-18.0	-18.2	-18.7	-18.5	-18.3	-17.9	-17.4	-16.5	-16.2	-15.4	-14.0	-13.5	-13.5	-13.0
3	-17.5	-18.5	-18.2	-18.6	-18.7	-18.8	-18.3	-17.8	-17.5	-17.0	-16.1	-15.4	-15.0	-14.7
4	-16.5	-16.8	-17.0	-17.2	-17.0	-16.5	-16.2	-15.8	-14.8	-13.5	-12.9	-12.5	-12.1	-11.9
5	-17.0	-17.3	-17.7	-17.6	-17.0	-16.9	-16.7	-14.7	-14.7	-14.0	-13.9	-12.8	-12.5	-12.0
7	-16.3	-16.4	-16.6	-16.3	-15.9	-16.0	-15.8	-15.5	-14.7	-13.9	-13.0	-12.2	-12.0	-11.8
7	-11.7	-10.9	-10.0	-9.4	-9.2	-9.3	-9.4	-10.0	-9.5	-9.0	-8.5	-8.2	-7.5	-7.3
8	-10.0	-12.4	-13.5	-13.4	-12.0	-10.7	-11.9	-10.2	-11.0	-9.5	-9.6	-9.3	-8.0	-7.0
9	-10.2	-10.9	-12.2	-13.2	-13.0	-12.0	-10.0	-8.6	-8.5	-8.5	-7.8	-6.9	-6.5	-6.9
10	-11.0	-10.8	-10.9	-10.9	-10.8	-10.8	-10.9	-10.7	-10.7	-10.9	-11.0	-11.4	-12.0	-14.0
11	-19.7	-19.7	-19.9	-19.8	-19.9	-20.0	-20.3	-20.5	-20.0	-19.8	-19.2	-19.0	-19.0	-18.3
12	-20.5	-21.0	-20.8	-20.4	-20.2	-19.7	-19.6	-19.6	-19.0	-18.8	-18.5	-18.4	-18.0	-17.8
13	-20.0	-20.2	-20.4	-20.2	-19.8	-19.3	-19.0	-18.7	-18.5	-18.0	-17.9	-17.6	-16.5	-16.3
14	-18.5	-18.6	-18.5	-18.3	-17.7	-17.5	-16.1	-15.3	-14.3	-14.5	-14.4	-14.3	-14.0	-13.7
15	-15.9	-16.2	-16.4	-16.5	-16.2	-16.2	-16.1	-15.9	-15.8	-15.5	-15.1	-14.9	-14.9	-14.5
16	-13.5	-13.0	-13.4	-12.9	-12.7	-12.9	-12.7	-12.7	-12.9	-12.0	-11.1	-10.7	-10.3	-10.4
17	-12.2	-13.0	-13.2	-13.8	-13.7	-13.4	-12.9	-12.7	-12.7	-12.4	-12.2	-11.7	-11.5	-10.8
18	-10.1	-10.3	-10.8	-10.9	-11.0	-10.9	-10.7	-10.7	-10.8	-10.7	-10.7	-10.2	-9.7	-9.3
19	-8.9	-9.1	-9.3	-9.2	-9.0	-8.9	-8.7	-7.8	-8.0	-7.5	-7.3	-7.1	-6.7	-6.4
20	-7.0	-6.9	-6.2	-6.2	-6.1	-6.6	-8.8	-8.7	-8.3	-8.1	-8.1	-8.1	-7.0	-6.3
21	-6.5	-6.8	-7.1	-7.3	-7.5	-7.0	-7.1	-7.2	-7.6	-7.5	-7.5	-7.4	-7.0	-6.8
22	-6.6	-6.6	-6.7	-6.7	-6.7	-6.3	-6.0	-6.1	-6.1	-6.1	-5.9	-5.4	-6.0	-6.5
23	-8.1	-8.0	-8.0	-7.6	-7.0	-6.3	-6.3	-6.3	-6.0	-5.7	-5.7	-5.2	-5.2	-5.3
24	-4.1	-4.0	-4.3	-4.2	-3.8	-4.0	-4.0	-4.4	-3.7	-2.8	-2.5	-2.5	-1.9	-0.7
25	-2.0	-2.8	-3.3	-3.8	-4.1	-4.9	-4.8	-4.3	-4.9	-4.8	-4.9	-5.1	-4.8	-5.0
26	-5.3	-5.5	-5.0	-4.8	-5.0	-5.2	-5.9	-6.1	-5.7	-5.5	-5.0	-4.8	-4.4	-3.9
27	-6.2	-5.8	-5.8	-5.1	-5.1	-5.1	-5.0	-5.1	-5.0	-4.4	-4.2	-4.0	-4.2	-4.5
28	-4.0	-3.9	-3.5	-3.3	-3.1	-3.3	-3.3	-3.1	-2.5	-2.0	-2.8	-3.0	-3.0	-3.4
29	-6.0	-5.8	-6.0	-5.9	-5.6	-5.3	-4.9	-5.0	-4.5	-4.0	-4.0	-4.0	-3.3	-3.0
30	-5.5	-6.0	-5.8	-5.9	-6.0	-6.0	-6.1	-5.8	-5.3	-5.0	-4.8	-4.5	-4.4	-4.2
31	-3.8	-3.4	-3.1	-3.1	-3.0	-2.8	-2.5	-2.4	-2.5	-2.5	-2.5	-2.3	-3.0	-1.4
Mean	-11.32	-11.53	-11.63	-11.60	-11.43	-11.23	-11.12	-10.80	-10.57	-10.14	-9.86	-9.56	-9.29	-9.06
Corr.	-11.11	-11.34	-11.46	-11.45	-11.30	-11.11	-11.02	-10.72	-10.51	-10.10	-9.84	-9.56	-9.31	-9.10
D. f. m.	-0.92	-1.15	-1.27	-1.26	-1.11	-0.92	-0.83	-0.53	-0.32	+0.09	+0.35	+0.63	+0.88	+1.09



1894. MAY.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-13.5	-13.1	-13.3	-14.0	-14.7	-15.1	-15.7	-16.1	-17.0	-17.5	-15.80	-19.1	-12.6	1
-13.0	-13.0	-13.2	-13.8	-14.3	-14.7	-15.3	-16.0	-16.7	-17.0	-15.67	-18.7	-12.6	2
-14.0	-13.5	-13.3	-13.5	-14.0	-14.1	-14.8	-15.2	-15.4	-15.9	-16.08	-19.0	-13.3	3
-12.0	-12.2	-12.0	-13.0	-13.3	-14.1	-15.0	-16.0	-16.3	-16.6	-14.63	-19.0	-11.8	4
-11.9	-11.7	-12.0	-11.6	-12.5	-13.7	-14.3	-14.0	-15.7	-16.2	-14.52	-17.7	-11.3	5
-11.7	-11.6	-11.5	-11.9	-12.2	-12.5	-12.3	-12.6	-12.3	-12.2	-13.63	-17.3	-11.2	6
-6.3	-5.5	-5.4	-5.8	-5.5	-5.3	-6.3	-8.5	-8.7	-9.5	-8.20	-12.7	-5.3	7
-7.7	-7.6	-7.4	-7.3	-7.9	-8.5	-8.3	-8.5	-9.3	-9.2	-9.59	-13.5	-7.0	8
-6.8	-6.9	-7.1	-7.8	-8.0	-8.3	-9.0	-8.5	-10.0	-10.4	-9.08	-13.2	-5.9	9
-14.8	-14.6	-14.8	-15.3	-16.0	-16.6	-17.1	-18.3	-19.0	-19.5	-13.45	-19.5	-10.2	10
-18.0	-18.1	-18.1	-18.1	-19.0	-19.2	-19.5	-19.9	-20.2	-20.4	-19.40	-21.2	-16.8	11
-17.8	-17.5	-18.0	-18.2	-18.8	-18.9	-19.0	-19.5	-19.7	-18.9	-19.15	-21.2	-16.8	12
-15.5	-15.3	-15.4	-15.6	-16.6	-16.8	-17.0	-17.5	-17.6	-18.2	-17.83	-20.4	-14.7	13
-13.8	-14.0	-14.2	-14.5	-14.7	-14.5	-14.8	-15.1	-15.3	-15.8	-15.52	-18.8	-13.2	14
-14.2	-13.9	-13.5	-13.8	-13.8	-13.6	-13.5	-13.3	-13.2	-13.3	-14.84	-16.7	-13.2	15
-10.2	-10.4	-10.1	-10.3	-10.3	-10.3	-10.5	-10.7	-11.3	-11.9	-11.55	-14.0	-9.7	16
-10.9	-10.9	-10.7	-10.4	-10.3	-10.4	-10.4	-10.4	-10.1	-10.2	-11.70	-14.0	-10.0	17
-9.3	-9.0	-9.1	-8.7	-8.5	-8.4	-8.4	-8.3	-8.4	-8.3	-9.72	-11.4	-8.3	18
-6.5	-6.9	-7.5	-7.8	-7.9	-7.8	-7.6	-7.7	-7.5	-7.2	-7.85	-9.3	-5.6	19
-5.0	-4.3	-3.9	-3.9	-4.0	-4.7	-4.5	-5.1	-5.5	-5.9	-6.22	-9.2	-3.5	20
-6.2	-6.1	-6.2	-6.6	-7.2	-7.2	-7.0	-7.0	-6.8	-6.4	-6.96	-7.7	-5.8	21
-7.1	-7.5	-8.0	-8.4	-8.4	-8.5	-8.3	-8.0	-8.0	-8.0	-6.96	-8.8	-5.1	22
-4.9	-4.5	-4.2	-4.2	-4.1	-4.1	-4.0	-3.7	-3.7	-4.1	-5.51	-8.1	-3.1	23
-0.8	-0.7	-0.6	-0.6	-0.6	-0.6	-1.0	-1.4	-1.5	-1.2	-2.33	-4.1	-0.1	24
-4.8	-4.1	-4.1	-4.0	-4.0	-4.3	-4.7	-4.5	-4.8	-5.1	-4.33	-5.1	-2.0	25
-3.7	-4.2	-3.9	-4.5	-4.3	-4.8	-5.3	-5.8	-6.3	-6.6	-5.06	-6.6	-3.5	26
-4.0	-3.7	-4.2	-3.9	-4.0	-4.0	-3.6	-3.1	-3.3	-4.0	-4.47	-6.6	-2.4	27
-3.0	-3.3	-4.0	-3.8	-4.5	-4.5	-4.6	-5.0	-5.3	-5.5	-3.65	-6.2	-1.9	28
-3.0	-3.4	-3.2	-3.0	-3.2	-3.9	-4.3	-5.2	-6.0	-6.0	-4.52	-6.2	-2.6	29
-4.0	-3.9	-3.9	-4.0	-4.1	-4.7	-4.8	-4.4	-4.0	-3.9	-4.88	-6.1	-3.9	30
-2.7	-1.9	-2.2	-2.3	-2.2	-2.6	-2.7	-3.3	-3.5	-3.3	-2.71	-4.2	-0.8	31
-8.94	-8.82	-8.87	-9.05	-9.32	-9.57	-9.79	-10.08	-10.40	-10.62	-10.19	-12.76	-7.88	Mean
-9.00	-8.90	-8.97	-9.17	-9.45	-9.72	-9.96	-10.27	-10.61	-10.85				Corr.
+ 1.19	+ 1.29	+ 1.22	+ 1.02	+ 0.74	+ 0.47	+ 0.23	- 0.08	- 0.42	- 0.66				D. f. m.

## TEMPERATURE OF THE AIR. C°.

1894. JUNE.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-3.4	-3.0	-4.3	-4.5	-5.3	-5.4	-5.6	-5.1	-4.0	-3.6	-3.2	-3.0	-2.9	-2.6
2	-6.2	-6.0	-6.9	-6.3	-6.5	-6.3	-7.0	-7.3	-7.2	-7.7	-7.1	-7.5	-7.0	-6.5
3	-8.8	-9.0	-9.3	-9.4	-9.3	-9.4	-8.9	-8.1	-8.1	-8.0	-7.8	-7.1	-6.9	-6.4
4	-7.1	-8.3	-8.0	-7.3	-8.0	-7.6	-8.5	-8.3	-7.4	-8.0	-7.5	-7.5	-7.0	-7.5
5	-9.8	-9.5	-9.3	-8.6	-8.5	-8.0	-7.6	-7.9	-6.9	-5.9	-6.0	-6.1	-5.8	-5.8
6	-8.1	-7.9	-7.9	-7.8	-7.9	-7.4	-7.3	-7.2	-6.6	-5.7	-5.5	-4.8	-4.0	-4.8
7	-4.0	-4.3	-4.7	-4.5	-4.0	-4.8	-4.7	-3.6	-3.4	-3.2	-3.3	-3.3	-3.1	-2.8
8	-4.4	-4.3	-4.4	-4.2	-4.0	-3.3	-2.7	-2.1	-1.6	-0.4	-0.3	-0.1	0.3	-0.2
9	-4.3	-4.8	-4.5	-4.7	-3.9	-3.2	-3.5	-3.0	-2.7	-1.5	-2.0	-1.8	-2.3	-2.9
10	-3.5	-3.2	-2.9	-2.5	-2.4	-2.0	-1.2	-0.6	-0.5	-0.3	0.5	1.4	1.6	1.3
11	-1.1	-1.1	-0.9	-0.7	0.0	0.4	1.0	1.7	1.0	0.2	0.5	0.8	0.8	0.8
12	0.0	-0.1	0.0	0.3	0.5	1.1	0.9	0.7	1.5	1.4	1.5	1.6	1.0	0.4
13	0.2	0.3	0.3	0.2	0.2	0.4	0.9	0.5	0.0	-0.2	1.0	1.8	2.1	2.2
14	-1.0	-1.0	-1.2	-1.8	-1.5	-1.0	-0.7	-0.6	-0.6	-0.2	-0.2	-0.1	0.8	1.1
15	-2.2	-1.5	-1.0	-0.2	0.0	0.4	0.9	1.3	1.5	1.8	1.7	1.3	1.0	0.9
16	-0.9	-0.6	-0.1	-0.6	-0.9	-0.5	0.6	0.5	0.4	0.4	1.0	0.2	1.2	1.1
17	-0.7	0.0	0.5	-0.2	-0.1	0.1	0.0	0.8	0.9	1.1	1.4	2.0	0.7	1.7
18	-1.0	0.0	0.4	1.1	1.0	1.5	1.7	0.9	0.9	1.0	0.7	0.3	0.8	1.6
19	-2.4	-2.2	-1.7	-1.0	-0.6	-0.6	-0.7	0.0	0.1	0.5	0.4	0.6	0.3	0.5
20	-0.2	0.1	-0.4	0.4	1.0	1.2	1.2	1.3	1.0	1.2	1.0	1.0	0.9	0.9
21	0.0	0.2	-0.2	-0.3	-0.7	-0.4	-1.1	0.4	1.0	1.7	1.9	2.4	2.0	1.2
22	0.6	0.6	0.5	0.7	0.7	0.9	0.8	0.8	0.8	0.8	0.9	0.7	0.3	0.5
23	-1.5	-1.5	-2.0	-1.8	-1.4	-1.2	-0.9	-0.2	-0.6	-0.8	0.0	1.0	1.0	1.0
24	0.0	-0.7	-0.9	-1.2	-0.9	-0.9	-1.2	-1.4	-2.2	-1.2	-0.8	-0.5	-0.2	0.1
25	-1.0	-1.4	-1.9	-1.9	-1.5	-1.7	-1.0	-0.5	-0.5	-0.7	-0.8	-0.8	-0.8	-0.9
26	-1.9	-1.5	-1.0	-1.0	-0.9	-1.1	-1.2	-1.5	-1.3	-1.3	-1.2	-1.2	-1.0	-1.0
27	-0.3	-0.3	-0.5	-0.4	-0.2	-0.2	-0.3	-0.1	0.0	0.2	0.3	0.3	0.3	0.5
28	0.1	-0.1	-0.1	-0.3	-0.4	-0.3	-0.3	-0.4	-0.1	0.0	0.2	0.6	0.7	0.7
29	0.3	0.2	0.3	0.6	0.5	0.6	0.8	0.7	0.8	0.7	0.5	0.4	-0.1	-0.1
30	0.1	0.3	0.4	0.3	0.5	1.0	1.0	0.9	0.8	0.4	0.5	0.8	0.9	0.8
Mean	-2.42	-2.35	-2.39	-2.25	-2.15	-1.92	-1.82	-1.58	-1.43	-1.24	-1.06	-0.89	-0.81	-0.81
Corr.	-2.37	-2.30	-2.35	-2.21	-2.12	-1.89	-1.80	-1.56	-1.42	-1.23	-1.06	-0.89	-0.81	-0.82
D. f. m.	-0.82	-0.75	-0.80	-0.66	-0.57	-0.34	-0.25	-0.01	0.13	0.32	0.49	0.66	0.74	0.73

1894. JUNE.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-2.5	-2.9	-2.8	-2.6	-3.0	-4.1	-4.8	-5.8	-6.1	-6.3	-4.03	-6.3	-2.4	1
-7.0	-7.7	-7.6	-7.5	-7.5	-7.4	-7.5	-7.3	-7.9	-8.0	-7.12	-8.0	-6.0	2
-6.1	-6.7	-6.0	-5.3	-5.0	-4.1	-3.7	-3.2	-5.4	-6.3	-7.01	-9.4	-3.2	3
-7.7	-7.7	-7.9	-8.0	-8.7	-8.8	-9.4	-9.7	-9.9	-10.2	-8.17	-10.2	-6.3	4
-5.9	-6.0	-4.9	-5.1	-5.2	-5.3	-7.0	-7.5	-7.7	-8.1	-7.02	-9.2	-4.6	5
-3.9	-3.0	-2.9	-3.3	-3.5	-3.0	-3.0	-3.5	-4.0	-4.0	-5.29	-8.5	-2.5	6
-2.0	-2.9	-3.9	-4.3	-4.0	-4.2	-4.6	-5.0	-5.0	-4.6	-3.93	-5.1	-1.9	7
0.0	0.2	-0.2	0.4	-2.2	-2.5	-2.8	-3.2	-4.5	-4.0	-2.10	-4.6	1.8	8
-2.3	-2.1	-2.0	-2.2	-3.0	-3.3	-3.2	-3.5	-3.5	-3.5	-3.07	-4.8	-1.2	9
1.1	1.3	1.1	0.9	0.3	0.0	-0.3	-0.6	-1.0	-1.0	-0.52	-4.1	1.5	10
0.7	0.9	-0.8	1.1	0.9	0.5	0.4	0.1	0.3	0.2	0.32	-1.2	1.9	11
0.2	0.4	0.4	0.1	0.5	0.7	0.5	0.4	0.5	0.2	0.61	-0.5	2.0	12
1.2	1.3	0.7	-1.3	-1.4	-2.3	-2.5	-2.1	-1.7	-1.3	0.02	-3.1	2.3	13
1.0	0.9	0.6	0.4	0.5	0.4	0.1	-0.1	-0.1	-0.2	-0.19	-3.1	1.1	14
0.5	-0.1	-0.5	-1.2	-0.8	-0.4	-0.7	-0.5	-0.3	-0.6	0.05	-2.8	2.4	15
1.0	1.3	2.0	1.3	0.5	0.0	0.5	0.0	0.2	-0.4	0.34	-1.3	3.0	16
1.0	0.8	1.0	0.5	-0.3	-0.5	-1.0	-1.5	-1.7	-1.7	0.20	-1.7	2.0	17
1.5	1.5	1.7	0.0	-0.5	-0.7	-1.1	-1.5	-2.7	-2.4	0.28	-2.7	1.8	18
0.5	0.5	0.4	0.1	0.0	0.0	0.6	0.8	0.3	-0.1	-0.15	-2.4	1.5	19
1.0	1.1	0.4	0.8	0.9	0.9	0.8	0.7	0.6	0.7	0.77	-0.6	1.3	20
0.9	1.0	0.8	0.6	0.5	0.5	0.6	0.6	0.7	0.6	0.62	-1.1	2.4	21
0.4	0.7	0.2	-0.2	-0.1	-0.6	-1.0	-1.0	-1.3	-1.4	0.22	-1.4	0.9	22
0.5	0.3	0.3	0.2	0.1	0.1	0.2	0.3	0.4	0.5	-0.25	-2.0	1.8	23
0.1	0.3	-0.5	-1.0	-0.7	-0.6	-0.5	-0.5	0.0	-0.2	-0.65	-2.2	0.8	24
-0.8	-0.7	-0.7	-0.5	-0.8	-0.9	-1.1	-0.9	-1.5	-2.3	-1.07	-2.3	0.0	25
-1.0	-0.8	-0.7	-1.0	-1.0	-0.9	-0.8	-0.8	-0.3	-0.2	-1.03	-2.3	-0.2	26
0.6	0.9	0.9	1.4	1.0	0.5	0.6	0.7	0.3	0.1	0.26	-1.0	1.5	27
0.6	0.5	0.5	0.5	0.5	0.7	0.6	0.5	0.5	0.4	0.23	-0.4	0.8	28
0.3	0.5	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.1	0.36	-0.1	1.0	29
1.1	1.1	1.0	0.9	1.0	0.9	0.8	0.7	0.1	0.2	0.69	0.1	1.5	30
-0.83	-0.84	-0.97	-1.14	-1.36	-1.47	-1.64	-1.77	-2.02	-2.13	-1.55	-3.41	0.17	Mean
-0.84	-0.86	-0.99	-1.17	-1.39	-1.51	-1.68	-1.82	-2.07	-2.19				Corr.
0.71	0.69	0.56	0.38	0.16	0.04	-0.13	-0.27	-0.52	-0.64				D. f. m.

TEMPERATURE OF THE AIR. C°.

1894. JULY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	0.5	0.2	0.2	0.0	0.2	0.9	1.0	0.6	0.0	0.4	0.4	0.2	0.1	0.2
2	-0.5	-0.6	-0.9	-0.6	0.0	0.1	0.2	0.4	0.6	0.6	0.7	1.0	1.0	1.0
3	-0.8	-0.9	-0.8	-0.9	-0.4	-0.1	0.1	0.5	0.6	0.7	1.0	1.5	1.7	0.7
4	-0.4	-0.5	-0.9	-0.4	-0.1	-0.3	-0.9	-0.9	-0.2	0.3	0.3	0.4	0.5	0.2
5	0.0	-0.1	0.0	-0.3	-0.3	-0.7	-0.6	-0.1	0.1	0.0	0.1	0.2	0.3	0.0
6	-2.2	-2.0	-2.0	-1.9	-1.6	-1.2	-1.0	-0.3	-0.3	0.0	0.0	0.1	-0.1	0.0
7	0.3	0.3	0.3	0.4	0.8	0.7	0.7	0.7	0.9	0.8	0.8	0.9	0.7	0.6
8	-0.3	-0.4	-0.3	-0.3	-0.1	-0.1	0.0	0.2	0.2	0.2	0.1	0.1	0.3	0.9
9	0.1	0.4	0.4	0.5	0.5	0.5	0.6	0.7	0.8	0.7	0.9	0.7	0.5	0.2
10	-1.7	-1.0	-1.0	-1.3	-1.7	-1.1	-0.8	-0.6	-0.3	-0.1	0.1	0.4	0.5	0.7
11	2.8	2.1	1.3	1.2	0.7	0.8	1.0	1.0	1.1	1.2	1.3	1.5	1.3	1.4
12	0.9	0.8	0.8	0.8	0.9	0.9	1.0	1.0	1.5	1.6	1.6	1.6	2.3	1.9
13	2.0	2.0	2.1	2.1	2.0	2.1	2.3	2.6	2.5	2.5	1.9	1.5	1.9	1.1
14	2.7	2.5	2.5	2.6	2.8	2.9	2.9	3.0	2.9	2.8	2.6	2.5	2.2	2.0
15	1.0	1.2	1.1	1.0	0.9	1.2	1.4	1.5	1.1	1.7	2.0	2.7	2.7	2.9
16	0.0	0.2	0.1	0.3	0.4	0.6	0.7	0.4	0.6	0.2	0.2	0.1	0.3	0.3
17	-0.1	0.0	0.5	0.8	1.0	1.0	1.0	0.8	0.7	0.2	0.2	0.1	0.0	0.0
18	-0.8	-0.1	-0.4	-0.6	0.0	0.8	1.0	1.6	0.9	1.2	0.9	0.9	0.9	1.0
19	0.7	0.8	0.9	0.9	0.9	0.9	1.0	0.8	1.1	1.4	1.5	1.6	1.4	1.1
20	1.1	1.3	1.1	1.0	1.3	1.7	0.8	0.6	1.0	0.6	0.5	0.8	0.8	0.7
21	0.0	0.0	-0.1	-0.1	-0.1	-0.1	0.0	-0.2	-0.8	-0.1	-0.1	-0.1	-0.2	-0.1
22	-1.9	-1.5	-0.9	-0.4	-0.4	-0.2	0.1	0.4	0.4	0.3	0.4	0.6	0.7	0.6
23	0.4	0.2	-0.8	-1.8	-1.3	-0.8	-0.3	0.2	0.9	1.6	1.5	1.5	1.9	1.7
24	-1.1	-1.0	-1.5	-1.0	-0.9	-0.7	-0.1	-0.1	0.0	0.0	0.2	0.2	0.1	0.1
25	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.7	0.7	0.6
26	0.0	-0.2	-0.4	-0.3	-0.2	-0.1	-0.1	0.0	0.1	0.2	0.3	0.3	0.4	0.5
27	0.0	0.0	0.0	0.3	0.2	0.1	0.0	0.3	0.3	0.4	0.4	0.4	0.4	0.5
28	-0.9	-0.8	-0.8	-0.5	-0.8	-0.9	-0.9	-0.7	0.0	0.5	0.6	0.3	0.0	0.0
29	-2.0	-2.1	-2.6	-3.0	-2.9	-2.8	-2.8	-2.6	-2.7	-2.2	-2.0	-1.8	-1.5	1.2
30	-0.8	-0.6	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.5
31	-2.5	-2.8	-2.9	-2.5	-2.4	-2.0	-1.9	-0.3	0.1	1.0	0.8	0.8	0.6	0.3
Mean	-0.11	-0.06	-0.17	-0.12	-0.1	0.15	0.22	0.38	0.49	0.62	0.64	0.71	0.73	0.66
Corr.														
D. f. m.	-0.36	-0.31	-0.42	-0.37	-0.26	-0.10	-0.03	0.13	0.24	0.37	0.39	0.46	0.48	0.41

1894. JULY.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
03	06	05	05	01	-01	-02	-01	-07	-05	0.22	-08	1.0	1
10	06	09	03	-02	-08	-08	-08	-08	-08	0.07	-09	1.0	2
07	08	05	04	04	01	-01	-03	-02	-03	0.20	-10	1.7	3
04	02	05	00	04	05	04	00	-01	-03	-0.04	-10	0.7	4
-04	-03	-04	-07	00	-01	-09	-13	-19	-20	-0.39	-20	0.8	5
-02	00	03	04	02	01	00	01	04	03	-0.45	-22	0.5	6
08	08	05	06	08	04	03	02	00	-01	0.55	-01	1.2	7
10	10	10	11	10	06	04	-01	00	01	0.28	-06	1.5	8
00	00	-02	-01	-01	-02	-02	-08	-10	-21	0.12	-21	0.9	9
05	07	10	15	16	19	15	11	13	0.7	0.19	-21	2.0	10
09	08	08	06	06	06	05	06	06	0.7	1.06	0.5	2.8	11
23	22	23	21	20	19	18	15	15	1.6	1.53	0.5	2.7	12
10	10	11	14	14	18	20	20	23	2.7	1.89	0.5	2.7	13
20	15	10	07	12	10	11	12	12	1.7	2.06	0.6	3.1	14
21	18	11	08	08	09	10	07	03	0.1	1.33	0.1	3.5	15
03	03	04	01	00	00	01	01	00	-0.2	0.23	-0.2	1.0	16
-02	-02	-03	-05	-05	-06	-10	-10	-08	-0.4	0.03	-1.1	1.3	17
08	05	07	05	05	04	04	04	06	0.5	0.53	-0.8	1.8	18
11	10	09	07	07	07	08	09	07	0.8	0.97	0.6	1.6	19
13	09	08	02	02	02	02	02	01	0.1	0.75	0.1	1.8	20
-03	-04	-05	-07	-08	-16	-15	-19	-22	-2.1	-0.58	-2.2	0.3	21
06	06	09	02	-03	-05	-03	-02	00	0.4	-0.02	-2.1	0.9	22
15	09	07	06	08	05	-02	-06	-10	-1.3	0.28	-1.8	1.9	23
00	01	01	00	01	02	04	05	04	0.3	-0.15	-1.5	0.5	24
05	04	03	01	01	01	01	00	00	0.0	0.30	0.0	0.8	25
03	02	05	04	03	02	02	02	01	0.1	0.13	-0.5	0.6	26
08	07	05	04	01	-06	-10	-12	10	-0.8	0.05	-1.3	0.8	27
00	01	-08	-09	-10	-15	-16	-16	-19	-20	-0.67	-20	0.6	28
-08	00	-05	-07	-07	-07	-09	-13	-11	-1.1	-1.67	-3.3	0.0	29
05	05	05	00	-11	-16	-18	-22	-23	-2.6	-0.45	-2.6	0.7	30
05	10	04	03	-03	-09	-10	-13	-08	-0.2	-0.67	-2.9	1.1	31
0.62	0.59	0.50	0.33	0.27	6.09	0.01	-0.16	-0.15	-0.22	0.25	-0.72	1.03	Mean
													Согг.
0.37	0.34	0.25	0.08	0.02	-0.16	-0.26	-0.41	-0.40	-0.47				D. f. m.

TEMPERATURE OF THE AIR. C°.

1894. AUGUST.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-0.1	-0.1	-0.2	-0.4	-0.1	0.1	0.0	-0.5	-0.6	-0.3	0.0	0.3	0.4	0.5
2	0.4	0.6	0.8	1.0	1.1	1.2	1.1	1.4	1.6	1.2	1.3	1.3	1.4	1.5
3	-0.2	-0.3	0.0	0.0	0.8	1.0	1.2	1.3	1.6	1.5	2.0	2.4	2.4	2.5
4	1.3	1.1	1.2	1.4	1.5	2.0	2.0	2.3	2.6	2.4	2.9	2.9	2.8	2.2
5	0.3	0.2	0.3	0.4	0.8	1.1	0.8	1.3	1.3	1.4	1.6	2.4	2.0	1.7
6	0.0	0.2	-0.3	0.2	0.8	1.3	1.8	2.6	2.2	2.2	2.2	2.6	2.0	2.6
7	-0.5	-0.2	0.0	-0.8	-0.2	-0.3	-0.3	-0.3	-0.1	-0.2	-0.2	-0.3	-0.2	0.0
8	-0.6	-0.3	-0.9	-1.2	-0.8	-0.1	-0.1	-0.1	0.0	0.4	0.8	1.0	0.7	0.6
9	0.4	0.3	0.5	0.5	0.4	0.4	0.1	0.0	0.0	0.1	0.2	0.2	0.2	0.2
10	-0.2	-0.3	-0.3	-0.3	-0.1	0.0	0.2	0.2	0.3	0.5	1.3	1.8	2.0	2.1
11	0.1	0.1	0.2	0.3	0.5	0.7	1.0	1.6	1.5	1.7	0.9	0.8	0.5	0.5
12	-1.1	-1.2	-1.1	-0.9	-0.9	-0.5	-0.2	0.2	0.4	0.4	0.8	1.4	1.7	1.0
13	-0.2	-0.8	-1.0	-0.3	-0.1	0.0	0.5	1.0	0.9	1.0	1.2	1.4	0.2	0.3
14	0.0	0.0	-0.5	-0.8	-1.0	-1.7	-1.6	-1.2	-0.7	-0.2	-0.4	-0.4	-0.3	-0.3
15	-0.3	-0.2	-0.8	-0.6	-0.2	0.0	1.2	0.5	0.2	-0.2	-0.8	-0.3	0.0	0.5
16	-0.6	-0.4	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
17	0.3	0.3	0.4	0.2	0.3	0.3	0.6	0.7	0.8	0.9	0.8	0.7	0.8	1.0
18	0.4	0.3	0.1	-0.4	0.0	0.1	0.3	0.6	0.7	0.7	0.8	0.1	0.8	0.4
19	0.4	0.5	0.5	0.6	1.0	1.1	1.9	1.2	1.8	0.9	0.8	0.4	0.3	0.3
20	-1.2	-0.7	-0.3	-0.1	0.1	0.2	0.3	0.3	0.6	0.9	1.2	1.2	0.8	0.3
21	-3.8	-3.2	-3.3	-3.3	-3.2	-3.1	-2.0	-2.1	-1.7	-1.3	-1.2	-1.0	-1.0	-1.0
22	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.2	0.1	0.1	-0.6	-0.7	-1.0	-0.8
23	-4.3	-5.7	-6.0	-7.0	-7.8	-7.2	-5.2	-5.0	-5.2	-5.1	-6.3	-7.5	-7.0	-6.3
24	-4.0	-4.5	-4.2	-4.0	-4.0	-3.9	-3.8	-3.7	-4.0	-3.8	-3.7	-3.9	-4.3	-4.3
25	-5.3	-5.5	-5.6	-5.4	-5.3	-4.9	-4.1	-3.8	-3.8	-3.2	-3.5	-2.9	-3.2	-3.5
26	-5.7	-5.3	-5.0	-5.2	-5.4	-5.1	-4.9	-4.7	-4.5	-4.2	-4.0	-3.8	-3.7	-3.9
27	-4.8	-5.0	-4.8	-3.5	-3.5	-3.0	-2.8	-3.0	-3.0	-3.0	-3.0	-3.0	-2.9	-2.7
28	-3.1	-3.3	-3.5	-3.8	-3.7	-3.8	-3.9	-4.1	-4.8	-4.6	-4.6	-4.1	-4.0	-3.6
29	-5.4	-4.7	-3.5	-1.9	-1.2	-1.2	-1.1	-0.8	-1.1	-1.3	-2.0	-2.2	-2.4	-2.4
30	-5.0	-5.0	-5.0	-5.2	-6.4	-6.8	-6.7	-6.7	-6.5	-6.1	-6.0	-6.0	-6.0	-6.0
31	-5.3	-4.7	-4.0	-4.1	-4.1	-3.9	-2.7	-2.2	-2.2	-2.2	-2.1	-2.0	-1.8	-2.1
Mean	-1.55	-1.54	-1.49	-1.43	-1.31	-1.16	-0.85	-0.74	-0.70	-0.63	-0.63	-0.55	-0.61	-0.60
Corr.	-1.58	-1.57	-1.51	-1.45	-1.33	-1.18	-0.86	-0.75	-0.71	-0.64	-0.63	-0.55	-0.61	-0.59
D. f. m.	-0.54	-0.53	-0.47	-0.41	-0.29	-0.14	0.18	0.29	0.33	0.40	0.41	0.49	0.43	0.45

1894. AUGUST.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
0.3	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.05	-1.1	0.5	1
1.8	1.6	1.5	1.4	1.1	1.1	1.2	1.4	0.7	-0.1	1.15	-0.2	1.8	2
2.5	2.5	2.5	2.5	2.3	2.2	1.9	1.5	1.6	1.6	1.55	-0.2	2.5	3
1.8	2.1	2.0	1.9	1.0	0.8	0.5	0.6	0.4	0.2	1.66	0.2	2.9	4
2.0	2.1	2.0	2.0	2.0	1.2	0.8	0.1	0.0	0.0	1.16	0.1	2.5	5
2.5	2.6	1.7	1.6	1.0	0.9	0.9	1.0	-0.1	-0.1	1.35	0.1	2.6	6
0.1	0.2	0.0	0.0	-0.1	-0.1	-0.4	-0.4	-0.6	-0.6	-0.23	-1.3	0.2	7
0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.4	0.19	-1.4	1.3	8
0.3	0.3	0.2	0.2	0.3	0.5	0.4	0.3	0.0	0.0	0.23	0.0	0.5	9
2.2	1.9	1.9	1.8	0.9	0.2	0.1	0.1	0.1	0.1	0.69	-0.6	2.2	10
0.4	0.4	0.2	0.0	-0.2	-0.5	-0.7	-1.0	-1.3	-1.4	0.26	-1.4	1.7	11
2.0	1.0	0.8	2.0	1.5	0.6	0.2	0.2	0.2	0.3	0.37	-1.4	2.2	12
0.4	0.5	0.7	0.7	0.4	0.1	0.0	0.0	0.0	-0.2	0.28	-1.0	2.3	13
-0.1	0.0	0.0	0.0	-0.5	-0.6	-0.9	-0.6	-0.3	-0.2	-0.51	-1.9	0.5	14
0.6	0.8	0.6	0.2	0.0	0.0	-0.7	-1.1	-1.2	-1.1	-0.12	-1.2	2.0	15
0.3	0.4	0.4	0.2	0.1	0.0	0.1	0.2	0.2	0.2	0.05	-1.1	0.4	16
1.2	1.6	1.2	0.8	0.7	0.6	0.6	0.6	0.4	0.4	0.68	-0.1	2.0	17
1.1	0.3	0.3	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.30	-0.4	2.0	18
0.4	0.0	0.8	-0.1	0.0	-0.7	-1.5	-1.6	-1.4	-1.0	0.28	-1.6	1.9	19
0.3	0.0	-0.4	-1.2	-1.8	-2.0	-2.8	-3.6	-3.9	-4.0	-0.66	-4.0	1.5	20
-0.8	-0.1	0.1	-0.2	-0.1	0.0	0.1	0.2	0.2	0.2	-1.32	-4.2	0.2	21
-0.8	-0.8	-1.1	-1.8	-2.5	-2.9	-3.0	-3.5	-4.0	-4.6	-1.11	-4.6	0.2	22
-6.9	-6.0	-5.3	-5.0	-5.0	-4.1	-3.8	-4.0	-4.1	-4.3	-5.59	-7.8	-3.4	23
-3.5	-3.6	-3.7	-4.1	-4.7	-4.9	-5.2	-5.4	-4.9	-4.9	-4.21	-5.6	-3.0	24
-3.5	-4.6	-4.7	-5.1	-6.1	-6.0	-6.2	-6.4	-6.5	-6.3	-4.81	-6.5	-2.6	25
-3.7	-3.8	-3.1	-4.9	-4.8	-6.0	-5.7	-5.0	-4.9	-5.0	-4.68	-7.0	-3.1	26
-2.7	-2.6	-2.6	-2.7	-2.8	-2.9	-3.0	-3.2	-3.4	-3.1	-3.21	-5.9	-2.4	27
-4.2	-3.6	-4.5	-5.7	-6.2	-6.9	-7.0	-7.2	-6.3	-6.0	-4.69	-7.5	-2.5	28
-2.2	-2.7	-2.7	-2.7	-3.0	-2.9	-2.7	-2.8	-4.0	-4.5	-2.56	-6.0	-0.7	29
-6.1	-6.4	-6.4	-6.6	-6.9	-6.6	-6.6	-6.9	-6.7	-6.6	-6.22	-7.0	-4.5	30
-2.2	-2.2	-2.1	-2.2	-2.1	-2.0	-2.0	-2.0	-2.0	-2.2	-2.68	-6.6	-1.7	31
-0.52	-0.56	-0.62	-0.85	-1.13	-1.29	-1.45	-1.54	-1.64	-1.68	-1.04	-2.82	0.32	Mean
-0.51	-0.55	-0.61	-0.83	-1.11	-1.27	-1.43	-1.51	-1.61	-1.65				Corr.
0.53	0.49	0.43	0.21	-0.07	-0.23	-0.39	-0.47	-0.57	-0.61				D. f. m.

## TEMPERATURE OF THE AIR. C°.

1894. SEPTEMBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	- 2.0	- 2.0	- 1.9	- 1.8	- 1.5	- 1.3	- 0.7	- 0.7	- 0.4	- 0.6	- 0.6	- 1.1	- 1.1	- 1.5
2	- 4.6	- 5.2	- 5.8	- 6.1	- 7.0	- 6.2	- 6.3	- 6.0	- 5.5	- 4.6	- 4.0	- 4.0	- 4.9	- 4.4
3	- 4.3	- 4.4	- 4.5	- 4.7	- 4.6	- 4.5	- 4.3	- 4.2	- 4.1	- 4.1	- 4.0	- 4.0	- 4.1	- 4.2
4	- 4.7	- 4.2	- 4.0	- 3.7	- 3.9	- 4.8	- 5.0	- 5.6	- 5.6	- 5.5	- 5.3	- 4.5	- 3.8	- 4.1
5	- 6.4	- 6.4	- 7.0	- 6.2	- 5.7	- 4.7	- 3.9	- 3.7	- 3.5	- 3.6	- 3.8	- 3.0	- 2.8	- 2.6
6	- 5.2	- 5.3	- 5.0	- 4.6	- 4.6	- 4.4	- 4.5	- 4.6	- 4.5	- 4.2	- 4.0	- 3.7	- 4.0	- 3.6
7	- 7.7	- 11.0	- 11.7	- 11.8	- 10.9	- 9.5	- 8.3	- 7.4	- 7.0	- 6.7	- 6.6	- 5.7	- 5.5	- 6.0
8	- 5.8	- 6.0	- 5.9	- 5.7	- 5.3	- 5.3	- 5.1	- 5.2	- 4.8	- 4.4	- 5.0	- 5.1	- 3.5	- 4.0
9	- 4.9	- 4.9	- 5.1	- 5.4	- 5.1	- 4.8	- 3.9	- 3.7	- 3.7	- 3.7	- 3.2	- 2.8	- 2.7	- 5.9
10	- 4.1	- 5.7	- 5.5	- 4.9	- 4.3	- 4.1	- 5.5	- 5.5	- 4.8	- 4.7	- 4.4	- 3.9	- 3.9	- 4.0
11	- 2.3	- 2.4	- 2.7	- 2.8	- 2.7	- 2.1	- 1.9	- 2.0	- 2.0	- 1.9	- 1.8	- 1.3	- 1.3	- 1.2
12	- 2.9	- 4.8	- 5.2	- 4.7	- 5.7	- 8.5	- 7.4	- 8.3	- 7.9	- 6.5	- 5.8	- 4.9	- 4.8	- 4.9
13	- 5.1	- 5.6	- 5.2	- 5.1	- 5.3	- 5.3	8.5	- 8.8	- 6.2	- 6.2	- 5.0	- 3.6	- 3.9	- 3.8
14	- 7.3	- 8.0	- 6.3	- 5.2	- 5.1	- 5.3	- 4.7	- 4.4	- 4.1	- 4.1	- 3.8	- 3.1	- 2.8	- 1.8
15	- 3.9	- 3.2	- 3.0	- 3.4	- 3.6	- 3.6	- 3.3	- 3.5	- 3.6	- 3.3	- 2.8	- 2.0	- 1.3	- 0.9
16	- 15.5	- 16.0	- 16.0	- 15.6	- 14.0	- 12.4	- 10.5	- 9.0	- 7.6	- 6.8	- 6.2	- 5.3	- 4.9	- 4.3
17	- 0.5	- 0.2	- 0.3	- 3.6	- 6.0	- 7.5	- 9.4	- 10.0	- 10.1	- 10.4	- 10.0	- 7.7	- 8.0	- 7.6
18	- 15.3	- 16.1	- 15.1	- 12.5	- 12.0	- 11.0	- 11.1	- 12.0	- 12.3	- 12.4	- 13.0	- 13.3	- 11.9	- 10.7
19	- 7.5	- 7.3	- 6.8	- 6.6	- 6.5	- 5.1	- 6.2	- 9.2	- 10.2	- 9.5	- 9.5	- 9.4	- 9.0	- 10.2
20	- 11.0	- 10.4	- 10.0	- 9.7	- 9.5	- 9.3	- 8.9	- 8.5	- 8.5	- 8.1	- 8.0	- 7.4	- 7.5	- 7.7
21	- 16.8	- 17.1	- 17.2	- 17.1	- 17.3	- 17.6	- 18.0	- 17.9	- 17.1	- 16.1	- 15.7	- 15.6	- 14.7	- 14.6
22	- 14.0	- 13.8	- 13.5	- 13.1	- 12.9	- 12.6	- 12.4	- 12.0	- 12.0	- 11.9	- 11.9	- 11.8	- 12.0	- 12.4
23	- 15.0	- 15.3	- 15.1	- 15.1	- 15.8	- 16.8	- 18.1	- 18.9	- 18.8	- 18.5	- 17.7	- 17.8	- 18.0	- 18.4
24	- 15.3	- 14.9	- 14.7	- 14.5	- 14.5	- 14.5	- 14.6	- 14.2	- 14.0	- 14.0	- 14.0	- 13.9	- 14.0	- 14.4
25	- 15.0	- 14.6	- 14.8	- 13.3	- 11.4	- 10.8	- 10.5	- 10.9	- 10.5	- 10.2	- 10.0	- 9.8	- 9.0	- 8.2
26	- 10.5	- 10.6	- 10.8	- 10.8	- 11.1	- 11.2	- 11.3	- 11.3	- 11.4	- 11.6	- 11.5	- 11.5	- 11.6	- 11.7
27	- 10.5	- 10.3	- 11.1	- 10.5	- 10.1	- 9.7	- 9.3	- 8.9	- 8.7	- 8.3	- 7.8	- 8.1	- 7.7	- 7.8
28	- 7.9	- 8.3	- 8.9	- 9.4	- 9.7	- 10.0	- 10.2	- 10.7	- 11.5	- 12.6	- 14.0	- 15.2	- 16.0	- 16.7
29	- 22.5	- 22.9	- 23.5	- 22.8	- 21.0	- 21.5	- 22.8	- 22.8	- 22.9	- 23.1	- 22.2	- 20.8	- 20.2	- 19.8
30	- 13.2	- 11.5	- 10.3	- 9.2	- 8.3	- 7.5	- 7.5	- 7.9	- 8.3	- 9.8	- 10.4	- 10.5	- 11.0	- 12.3
Mean	- 8.72	- 8.95	- 8.90	- 8.66	- 8.51	- 8.40	- 8.47	- 8.59	- 8.39	- 8.25	- 8.07	- 7.69	- 7.53	- 7.66
Corr.	- 8.91	- 9.12	- 9.05	- 8.80	- 8.63	- 8.50	- 8.56	- 8.66	- 8.44	- 8.28	- 8.09	- 7.69	- 7.51	- 7.63
D. f. m.	- 0.61	- 0.82	- 0.75	- 0.50	- 0.33	- 0.20	- 0.26	- 0.36	- 0.14	0.02	0.21	0.61	0.79	0.67



1894. SEPTEMBER.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
- 1.7	- 1.4	- 1.8	- 2.0	- 1.9	- 2.3	- 3.1	- 3.2	- 3.5	- 3.9	- 1.75	- 3.9	- 0.4	1
- 4.5	- 4.6	- 4.3	- 4.4	- 4.2	- 4.0	- 4.1	- 4.1	- 4.1	- 4.5	- 4.89	- 7.0	- 3.8	2
- 4.0	- 4.4	- 4.1	- 3.9	- 3.9	- 3.9	- 3.9	- 4.8	5.0	- 5.0	- 4.29	- 5.0	- 3.9	3
- 4.4	- 4.2	- 3.8	- 4.9	- 5.5	- 5.9	- 6.3	- 6.6	- 6.9	- 7.0	- 5.01	- 7.0	- 3.6	4
- 2.1	- 2.7	- 2.0	- 2.7	- 3.1	- 3.7	- 4.1	- 4.8	- 5.2	- 5.3	- 4.13	- 7.0	- 1.7	5
- 4.0	- 4.1	- 4.0	- 4.6	- 5.0	- 5.3	- 5.3	- 5.6	- 6.0	- 6.9	- 4.71	- 6.9	- 3.6	6
- 6.0	- 6.0	- 5.9	- 5.9	- 5.5	- 5.7	- 5.5	- 5.6	- 5.7	- 5.8	- 7.23	-12.2	- 5.5	7
- 4.7	- 4.9	- 5.0	- 5.7	- 7.0	- 8.7	- 6.7	- 5.7	- 5.0	- 4.4	- 5.36	- 9.4	- 3.5	8
- 5.3	- 4.0	- 3.9	- 4.4	- 4.9	- 5.0	- 5.2	- 7.0	- 6.0	- 4.7	- 4.59	- 7.4	- 2.7	9
- 5.0	- 5.2	- 5.2	- 4.8	- 4.6	- 3.9	- 4.4	- 4.3	- 3.9	- 2.7	- 4.55	- 5.7	- 2.7	10
- 1.3	- 1.5	- 1.5	- 1.5	- 1.8	- 2.0	- 1.9	- 2.4	- 2.4	- 2.1	- 1.95	- 2.8	- 1.2	11
- 4.7	- 4.1	- 4.0	- 4.0	- 4.5	- 4.5	- 4.4	- 4.2	- 4.4	- 4.8	- 5.25	- 8.9	- 2.1	12
- 4.0	- 4.6	- 4.7	- 4.6	- 4.5	- 4.4	- 4.8	- 5.2	- 5.5	- 5.6	- 5.23	- 9.3	- 3.6	13
- 1.3	- 1.8	- 2.8	- 3.3	- 4.0	- 3.3	- 3.0	- 2.8	- 2.7	- 4.2	- 3.97	- 8.2	- 1.3	14
- 1.1	- 2.2	- 6.1	- 7.1	- 6.2	- 6.3	- 6.8	-10.8	-12.5	-14.8	- 4.80	-14.8	- 0.9	15
- 3.0	- 1.8	- 1.5	- 1.4	- 0.5	- 0.1	- 0.2	- 0.2	- 0.3	- 0.4	- 6.40	-16.2	- 0.1	16
- 7.5	- 6.8	- 6.5	- 8.3	-10.7	-13.0	-14.0	-15.2	-17.0	-16.6	- 8.62	-17.3	0.1	17
-10.0	- 9.5	- 9.0	- 8.9	- 8.7	- 8.5	- 8.4	- 8.2	- 8.1	- 7.9	-11.08	-16.6	- 7.9	18
-11.1	-11.9	-12.0	-10.8	- 9.8	- 8.9	-11.0	- 9.4	-10.5	-11.4	- 9.16	-12.3	- 5.1	19
- 8.1	- 8.5	- 8.5	- 8.2	- 9.0	- 9.6	-11.5	-13.6	-15.0	-16.6	- 9.71	-16.6	- 6.7	20
-14.7	-14.2	-14.1	-14.0	-14.1	-14.1	-14.3	-14.4	-14.4	-14.1	-15.63	-18.0	-13.5	21
-12.8	-13.3	-14.0	-14.1	-13.9	-13.1	-13.4	-13.7	-14.1	-14.4	-13.05	-14.4	-11.5	22
-19.2	-20.4	-19.0	-17.6	-17.2	-16.6	-15.9	-15.4	-15.7	-15.6	-17.16	-21.1	-14.4	23
-15.4	-16.5	-14.5	-14.6	-14.2	-13.8	-14.0	-14.2	-13.4	-14.9	-14.46	-18.3	-13.4	24
- 8.3	- 8.8	- 8.9	- 9.4	- 9.5	- 9.7	- 9.8	-10.0	-10.1	-10.2	-10.57	-15.0	- 8.1	25
-12.3	-12.9	-13.1	-13.0	-12.6	-11.9	-12.0	-12.1	-11.8	-11.2	-11.66	-13.2	-10.2	26
- 7.6	- 7.8	- 7.6	- 7.9	- 7.7	- 7.6	- 7.1	- 6.9	- 7.1	- 7.6	- 8.49	-11.2	- 6.5	27
-17.0	-18.4	-19.5	-21.1	-20.9	-20.6	-20.6	-21.2	-21.9	-22.6	-15.21	-22.6	- 7.6	28
-18.7	-19.2	-19.8	-18.2	-17.5	-16.6	-16.7	-14.9	-14.1	-13.4	-19.91	-23.7	-13.4	29
-10.0	- 9.7	-10.0	-10.1	-10.4	-10.5	-11.2	-12.2	-12.8	-12.8	-10.31	-13.4	- 7.2	30
- 7.66	- 7.85	- 7.90	- 8.05	- 8.11	- 8.12	- 8.32	- 8.62	- 8.84	- 9.05	- 8.30	-12.18	- 5.53	Mean
- 7.61	- 7.78	- 7.81	- 7.95	- 7.99	- 7.98	- 8.17	- 8.45	- 8.65	- 8.85				Corr.
0.69	0.52	0.49	0.35	0.31	0.32	0.13	- 0.15	- 0.35	- 0.55				D. f. m.

## TEMPERATURE OF THE AIR. C°.

1894. OCTOBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-12.9	-12.8	-12.8	-12.5	-13.5	-14.2	-14.4	-15.2	-15.4	-15.3	-15.5	-15.1	-15.2	-14.9
2	-26.9	-27.3	-27.2	-27.0	-27.1	-27.0	-26.1	-24.2	-22.8	-21.9	-20.8	-20.0	-20.3	-20.8
3	-24.7	-24.3	-23.9	-23.5	-23.7	-24.1	-25.8	-25.9	-26.8	-25.4	-23.8	-20.6	-20.0	-23.3
4	-21.1	-18.8	-18.4	-17.5	-17.4	-17.4	-17.2	-17.0	-17.2	-17.1	-17.3	-17.4	-17.5	-17.9
5	-17.8	-18.1	-18.0	-17.2	-17.2	-17.4	-17.1	-16.7	-16.1	-15.3	-14.8	-14.0	-14.1	-14.2
6	-15.7	-15.8	-15.4	-15.2	-15.0	-14.9	-14.7	-13.8	-13.6	-13.6	-13.3	-13.3	-13.3	-13.4
7	-16.7	-16.9	-16.6	-17.6	-19.0	-19.4	-19.8	-19.8	-19.6	-18.8	-17.6	-17.8	-17.7	-17.4
8	-24.2	-24.9	-25.1	-24.8	-24.0	-24.5	-25.7	-26.3	-26.3	-26.0	-26.0	-25.9	-25.9	-26.2
9	-19.5	-19.2	-19.0	-20.8	-22.0	-22.3	-22.3	-23.1	-24.0	-25.0	-26.0	-26.5	-27.1	-27.7
10	-27.7	-27.2	-27.0	-25.8	-25.0	-24.8	-24.2	-23.5	-23.6	-23.7	-22.9	-22.7	-22.6	-22.4
11	-35.8	-36.5	-36.0	-35.7	-33.5	-31.5	-30.0	-28.0	-26.8	-22.3	-22.8	-23.0	-22.0	-20.6
12	-14.1	-12.7	-12.0	-12.5	-13.2	-15.0	-15.5	-15.1	-15.3	-16.2	-16.7	-17.2	-17.1	-17.2
13	-16.5	-16.5	-16.0	-17.4	-16.8	-17.8	-17.3	-17.2	-17.4	-18.6	-19.0	-18.6	-19.1	-19.4
14	-23.2	-23.3	-24.0	-23.9	-23.8	-23.5	-23.2	-23.7	-23.3	-23.1	-23.0	-23.7	-24.0	-24.4
15	-20.0	-19.5	-19.0	-18.7	-18.0	-17.6	-17.0	-13.8	-12.8	-12.1	-13.0	-13.5	-12.8	-12.2
16	-21.0	-20.0	-19.3	-18.5	-19.8	-19.0	-18.9	-18.0	-18.0	-17.9	-17.0	-16.5	-18.0	-20.2
17	-17.5	-18.4	-18.7	-19.0	-19.1	-20.0	-20.1	-19.9	-19.8	-20.3	-20.8	-19.4	-19.0	-18.2
18	-18.0	-18.5	-19.7	-21.2	-21.5	-22.5	-23.8	-23.0	-22.1	-21.9	-22.0	-22.4	-23.0	-23.0
19	-32.8	-29.8	-29.0	-28.1	-27.4	-26.5	-26.3	-24.7	-20.0	-17.4	-17.0	-17.0	-17.0	-17.5
20	-15.8	-15.2	-14.9	-14.6	-16.0	-19.6	-22.5	-25.3	-25.7	-26.1	-26.0	-26.0	-25.0	-22.6
21	-13.8	-13.4	-17.5	-21.4	-23.0	-24.7	-26.0	-27.0	-27.0	-27.6	-28.0	-28.2	-27.0	-26.8
22	-32.0	-33.0	-33.8	-34.3	-34.5	-34.5	-34.5	-34.5	-34.2	-34.2	-34.0	-33.6	-33.6	-34.2
23	-33.0	-30.7	-28.5	-26.5	-24.1	-23.0	-21.7	-21.3	-21.0	-21.2	-20.5	-20.2	-19.7	-19.6
24	-20.5	-20.8	-20.9	-21.0	-21.1	-21.7	-22.0	-22.4	-22.4	-22.1	-22.0	-21.9	-21.9	-21.7
25	-20.0	-20.0	-22.0	-22.0	-21.5	-20.5	-19.8	-19.7	-19.5	-19.5	-19.3	-18.9	-19.0	-19.4
26	-31.1	-31.6	-31.9	-31.7	-31.1	-32.4	-32.0	-32.0	-30.6	-28.0	-28.0	-28.4	-27.8	-25.3
27	-27.5	-28.2	-29.5	-30.1	-30.3	-31.0	-32.0	-32.7	-32.7	-33.1	-33.2	-33.7	-33.1	-33.1
28	-27.0	-25.7	-24.7	-23.2	-23.1	-23.0	-22.5	-22.2	-22.1	-21.8	-21.4	-21.1	-20.7	-20.0
29	-17.7	-18.8	-19.0	-21.6	-22.0	-22.8	-23.2	-23.9	-24.7	-25.1	-25.5	-26.5	-27.0	-27.2
30	-22.3	-22.4	-22.9	-22.4	-22.4	-23.3	-23.0	-22.2	-22.0	-21.9	-21.5	-20.3	-20.4	-19.8
31	-25.4	-26.6	-27.5	-23.8	-29.1	-29.8	-29.8	-29.8	-29.7	-29.7	-30.3	-30.7	-30.8	-31.2
Mean	-22.33	-22.16	-22.26	-22.40	-22.43	-22.76	-22.85	-22.64	-22.34	-22.01	-21.90	-21.75	-21.67	-21.67
Corr.	-22.61	-22.42	-22.49	-22.60	-22.61	-22.91	-22.98	-22.74	-22.42	-22.06	-21.93	-21.75	-21.64	-21.62
D. f. m.	- 0.27	- 0.08	- 0.15	- 0.26	- 0.27	- 0.57	- 0.64	- 0.40	- 0.08	0.28	0.41	0.59	0.70	0.72

1894. OCTOBER.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-17.5	-20.0	-20.7	-21.1	-21.9	-22.5	-24.2	-23.8	-24.0	-25.1	-17.52	-25.1	-13.5	1
-20.4	-20.3	-19.8	-19.2	-18.8	-18.0	-18.5	-20.8	-23.0	-23.9	-22.59	-27.8	-17.6	2
-23.0	-22.4	-22.5	-23.9	-25.2	-26.1	-23.9	-23.5	-22.0	-22.3	-23.53	-27.2	-19.5	3
-17.9	-17.6	-17.5	-17.6	-17.6	-17.8	-17.8	-17.9	-17.8	-17.4	-17.75	-22.3	-16.6	4
-14.8	-14.3	-14.2	-14.2	-14.4	-14.6	-14.8	-15.1	-15.3	-15.6	-15.64	-18.7	-14.0	5
-13.6	-13.8	-13.7	-13.4	-13.2	-13.3	-14.0	-14.8	-15.2	-15.6	-14.23	-15.9	-13.2	6
-17.4	-20.3	-22.0	-22.5	-23.3	-23.4	-23.6	-23.8	-22.9	-24.1	-19.92	-23.8	-15.6	7
-26.3	-26.4	-26.5	-26.8	-26.7	-25.8	-23.5	-21.9	-21.1	-20.7	-25.06	-26.9	-20.7	8
-27.9	-28.0	-27.0	-29.0	-28.0	-27.2	-26.1	-26.6	-28.1	-28.0	-25.02	-30.1	-19.0	9
-22.0	-21.8	-23.0	-25.3	-28.8	-31.2	-32.3	-33.5	-34.5	-35.5	-26.29	-35.5	-21.1	10
-19.8	-17.9	-17.5	-16.9	-16.0	-16.6	-16.7	-16.0	-15.8	-15.0	-23.86	-36.5	-15.0	11
-17.1	-17.1	-17.1	-17.4	-17.7	-17.9	-18.5	-18.5	-17.7	-16.8	-16.07	-18.5	-12.0	12
-19.4	-19.4	-20.1	-20.5	-21.2	-21.5	-21.9	-22.2	-22.5	-23.0	-19.14	-23.0	-15.8	13
-23.8	-23.4	-23.4	-23.3	-23.2	-22.6	-22.0	-21.4	-20.8	-20.5	-23.10	-24.7	-20.5	14
-11.2	-16.6	-19.1	-22.7	-23.0	-23.8	-23.1	-24.1	-24.1	-24.1	-17.99	-24.3	-11.2	15
-19.1	-19.0	-19.0	-15.9	-15.9	-16.5	-17.1	-17.8	-18.3	-18.1	-18.28	-24.1	-16.5	16
-18.1	-19.3	-19.5	-19.6	-20.5	-19.3	-18.0	-17.0	-17.0	-17.7	-19.01	-21.1	-16.7	17
-25.0	-27.5	-28.2	-29.2	-29.8	-30.9	-30.5	-32.1	-32.2	-32.3	-25.01	-32.3	-17.7	18
-17.3	-17.3	-17.3	-17.4	-17.4	-17.3	-17.3	-17.1	-16.8	-16.1	-20.91	-32.8	-16.1	19
-20.0	-18.8	-17.0	-16.7	-16.6	-16.4	-16.2	-15.8	-15.2	-14.7	-19.28	-26.2	-14.4	20
-27.3	-28.0	-28.2	-28.5	-29.1	-29.9	-30.5	-30.8	-31.3	-31.6	-26.11	-31.6	-13.4	21
-34.1	-33.8	-34.1	-34.0	-34.8	-35.6	-35.6	-35.6	-35.0	-35.0	-34.27	-35.6	-31.6	22
-19.4	-19.3	-19.5	-19.8	-19.6	-19.6	-19.8	-20.0	-20.2	-20.4	-22.03	-35.0	-18.9	23
-21.8	-21.8	-21.6	-21.5	-21.4	-21.2	-21.3	-21.6	-20.8	-20.2	-21.48	-22.4	-20.2	24
-20.3	-20.9	-20.9	-20.9	-20.7	-20.6	-20.7	-23.9	-28.5	-29.4	-21.16	-29.4	-18.6	25
-24.8	-24.4	-23.9	-22.8	-22.2	-22.4	-23.2	-25.6	-26.7	-26.8	-27.70	-33.1	-21.9	26
-33.0	-33.0	-32.9	-32.7	-32.6	-32.5	-31.3	-30.3	-29.0	-28.4	-31.50	-33.9	-26.8	27
-19.7	-19.8	-19.9	-20.0	-20.0	-19.9	-20.0	-20.0	-19.7	-18.7	-21.51	-28.4	-18.7	28
-26.9	-26.4	-25.2	-25.8	-26.4	-25.4	-25.3	-24.9	-23.1	-22.4	-24.03	-27.9	-16.8	29
-19.9	-21.1	-21.0	-20.8	-20.2	-21.2	-22.0	-23.0	-23.0	-24.1	-21.80	-24.1	-19.4	30
-31.2	-31.5	-32.0	-31.9	-32.1	-32.4	-32.5	-32.5	-32.1	-31.9	-30.38	-32.5	-24.1	31
-21.61	-21.97	-22.07	-22.30	-22.53	-22.69	-22.65	-22.96	-23.02	-23.08	-22.34	-27.44	-17.97	Mean
-21.53	-21.87	-21.94	-22.15	-22.35	-22.49	-22.42	-22.70	-22.74	-22.77				Corr.
0.81	0.47	0.40	0.19	- 0.01	- 0.15	- 0.08	- 0.36	- 0.40	- 0.43				D. f. m.

TEMPERATURE OF THE AIR. C°.

1894. NOVEMBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-31.5	-30.0	-29.4	-28.6	-27.5	-25.3	-24.6	-24.7	-24.2	-24.0	-24.0	-24.4	-24.8	-23.3
2	-20.8	-20.3	-20.2	-20.2	-20.0	-20.1	-20.0	-19.7	-19.7	-19.5	-19.5	-19.6	-19.8	-19.8
3	-23.5	-26.9	-27.5	-28.2	-29.0	-30.5	-31.0	-31.8	-32.1	-32.2	-33.1	-33.5	-33.8	-33.8
4	-33.4	-33.5	-33.9	-34.0	-34.0	-34.1	-34.8	-35.7	-36.0	-36.2	-36.8	-37.2	-36.7	-36.4
5	-31.8	-33.0	-34.0	-34.3	-33.8	-32.0	-31.5	-31.2	-31.5	-30.0	-29.7	-29.4	-29.7	-28.4
6	-29.0	-29.8	-30.8	-31.6	-32.5	-33.2	-34.5	-35.7	-35.7	-36.3	-36.5	-36.6	-36.4	-36.4
7	-39.1	-39.3	-37.5	-35.0	-32.0	-31.6	-31.2	-30.9	-33.0	-34.3	-34.9	-35.7	-36.3	-35.2
8	-34.1	-34.3	-34.3	-34.5	-34.4	-34.3	-34.3	-34.5	-34.5	-34.4	-34.4	-34.8	-34.8	-34.8
9	-34.5	-34.5	-34.5	-34.7	-34.6	-34.9	-35.0	-35.5	-35.8	-36.4	-36.4	-36.0	-35.8	-35.6
10	-36.7	-36.9	-37.0	-37.0	-37.0	-37.0	-37.0	-36.7	-37.1	-37.2	-37.7	-38.0	-38.0	-37.7
11	-35.7	-35.7	-35.5	-34.3	-34.2	-33.8	-33.7	-33.7	-33.8	-34.1	-33.8	-33.3	-33.4	-33.4
12	-29.5	-29.8	-30.2	-30.5	-31.2	-31.5	-32.5	-33.1	-34.0	-34.3	-35.0	-35.1	-35.2	-35.3
13	-37.9	-37.9	-37.8	-37.9	-38.0	-38.3	-38.3	-38.7	-39.0	-39.3	-39.0	-39.1	-39.0	-39.2
14	-39.7	-39.9	-40.4	-40.7	-40.7	-40.7	-40.8	-41.1	-40.9	-40.6	-41.1	-41.4	-41.7	-42.1
15	-40.7	-40.8	-40.5	-40.6	-40.7	-40.9	-41.2	-41.6	-41.5	-41.5	-41.4	-41.4	-41.5	-42.0
16	-40.8	-40.8	-40.5	-39.6	-39.0	-37.0	-37.0	-35.3	-33.4	-31.5	-30.3	-29.6	-29.0	-28.3
17	-31.5	-32.6	-33.9	-34.6	-34.5	-34.3	-31.3	-29.8	-27.4	-26.3	-24.5	-22.9	-21.5	-19.8
18	-19.0	-18.7	-17.2	-16.3	-16.2	-16.3	-17.0	-18.3	-18.2	-18.1	-17.9	-17.7	-17.7	-18.3
19	-18.9	-18.4	-18.0	-17.7	-18.0	-17.7	-16.1	-16.0	-16.0	-15.7	-15.5	-15.4	-15.3	-15.6
20	-20.7	-22.1	-23.5	-23.9	-24.5	-26.6	-27.5	-27.0	-26.0	-25.5	-25.0	-24.8	-24.6	-24.3
21	-22.6	-22.8	-22.0	-20.5	-19.2	-19.1	-20.0	-21.1	-21.0	-20.4	-19.5	-18.8	-18.9	-18.7
22	-10.4	-10.2	-10.3	-10.6	-10.5	-10.7	-14.8	-16.4	-19.4	-22.0	-22.1	-22.2	-25.0	-30.5
23	-32.2	-32.3	-32.1	-32.1	-32.1	-32.0	-31.9	-32.0	-32.2	-32.7	-32.5	-32.8	-32.9	-33.4
24	-34.0	-34.0	-34.0	-34.0	-33.1	-31.0	-27.8	-25.1	-24.0	-22.8	-22.5	-22.6	-22.7	-22.7
25	-31.0	-31.0	-30.9	-30.7	-30.5	-30.5	-30.5	-30.2	-30.0	-30.0	-29.7	-29.2	-29.5	-30.0
26	-31.5	-31.5	-31.5	-31.5	-31.4	-31.4	-31.4	-31.4	-31.3	-30.9	-31.0	-31.3	-31.0	-30.9
27	-33.7	-34.8	-35.0	-34.0	-34.5	-33.5	-33.5	-31.2	-32.0	-32.9	-33.3	-33.9	-34.5	-35.0
28	-35.8	-36.0	-36.0	-36.4	-36.5	-36.5	-36.7	-37.1	-37.0	-37.1	-37.3	-37.8	-38.1	-38.7
29	-38.2	-36.7	-35.4	-35.6	-37.0	-36.9	-36.5	-36.2	-36.3	-36.3	-36.5	-37.7	-37.3	-37.0
30	-37.2	-36.7	-36.0	-36.5	-37.0	-36.7	-35.0	-35.4	-35.5	-34.3	-34.0	-33.3	-33.8	-34.1
Mean	-31.18	-31.37	-31.33	-31.20	-31.12	-30.95	-30.91	-30.90	-30.95	-30.89	-30.83	-30.85	-30.96	-31.02
Corr.	-31.25	-31.44	-31.39	-31.25	-31.17	-30.99	-30.94	-30.93	-30.97	-30.90	-30.84	-30.85	-30.95	-31.01
D. f. m.	- 0.31	- 0.50	- 0.45	- 0.31	- 0.23	- 0.05	0.00	0.01	- 0.03	0.04	0.10	0.09	- 0.01	- 0.07

1894. NOVEMBER.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-24.8	-22.2	-22.2	-22.5	-22.5	-22.6	-22.2	-22.0	-21.5	-21.2	-24.58	-32.6	-21.2	1
-20.0	-20.2	-20.8	-21.2	-20.7	-20.1	-20.1	-20.5	-20.9	-21.2	-20.20	-21.2	-19.2	2
-33.9	-33.8	-33.8	-33.7	-33.6	-33.3	-33.5	-33.4	-33.3	-33.3	-31.77	-33.9	-21.2	3
-37.0	-37.2	-37.2	-37.2	-35.3	-35.8	-34.2	-32.1	-31.5	-30.9	-35.05	-37.6	-30.9	4
-30.0	-30.4	-29.2	-28.1	-27.3	-26.9	-27.0	-27.6	-28.0	-28.4	-30.13	-35.7	-26.5	5
-36.1	-36.4	-36.6	-36.6	-38.0	-37.6	-39.2	-40.0	-39.4	-38.8	-35.57	-40.1	-28.4	6
-34.0	-32.8	-32.0	-31.8	-32.0	-31.7	-31.8	-32.7	-33.8	-33.8	-33.85	-40.1	-30.5	7
-34.0	-34.8	-34.8	-34.8	-34.8	-34.8	-34.7	-34.7	-34.5	-34.5	-34.53	-36.1	-33.8	8
-35.8	-36.1	-36.7	-37.0	-37.4	-37.6	-37.0	-36.8	-37.0	-37.0	-35.94	-37.6	-34.5	9
-37.7	-37.4	-37.4	-37.0	-36.1	-35.6	-35.9	-36.3	-36.3	-36.3	-36.96	-38.0	-35.5	10
-33.5	-33.4	-33.3	-32.0	-31.0	-31.4	-31.4	-30.7	-29.5	-29.3	-33.08	-36.3	-29.3	11
-35.9	-36.3	-36.8	-37.1	-37.1	-37.4	-37.5	-37.8	-38.0	-37.9	-34.54	-38.0	-28.9	12
-39.3	-39.5	-39.3	-39.3	-39.3	-39.4	-39.4	-39.6	-39.2	-39.1	-38.87	-39.6	-37.5	13
-41.5	-41.0	-41.0	-41.0	-41.0	-41.2	-41.2	-41.3	-41.0	-40.9	-40.95	-42.1	-39.7	14
-41.8	-41.9	-41.9	-42.0	-42.0	-42.0	-42.4	-41.9	-41.7	-41.9	-41.49	-42.4	-40.5	15
-27.1	-26.3	-25.7	-25.1	-25.7	-28.9	-28.9	-26.9	-26.9	-28.5	-31.75	-41.9	-25.0	16
-18.7	-18.0	-17.2	-17.0	-18.1	-19.2	-19.9	-20.5	-19.5	-18.6	-24.65	-35.6	-16.9	17
-19.7	-19.5	-19.1	-18.0	-17.9	-17.5	-17.6	-19.0	-19.6	-19.3	-18.09	-20.3	-16.1	18
-15.7	-15.7	-15.9	-15.9	-16.6	-16.7	-17.0	-19.0	-20.8	-20.5	-17.00	-20.8	-15.3	19
-23.8	-23.0	-22.1	-21.3	-20.9	-20.5	-20.8	-20.7	-19.7	-20.5	-23.30	-28.8	-18.2	20
-17.2	-15.3	-14.4	-13.3	-12.5	-11.7	-11.7	-11.6	-10.9	-10.4	-17.23	-22.8	-10.4	21
-31.2	-31.8	-32.0	-32.1	-32.3	-32.3	-32.6	-32.6	-32.5	-32.5	-23.21	-32.6	-10.2	22
-33.4	-33.5	-33.4	-33.3	-33.1	-33.1	-33.1	-33.5	-34.0	-34.0	-32.82	-34.0	-31.8	23
-22.6	-22.8	-23.9	-24.6	-25.5	-27.4	-29.8	-31.1	-31.1	-31.1	-27.51	-35.5	-22.4	24
-30.3	-30.6	-30.7	-31.0	-31.1	-31.2	-31.5	-31.5	-31.5	-31.5	-30.61	-31.8	-29.2	25
-31.0	-31.1	-30.9	-31.0	-31.5	-32.6	-32.7	-33.1	-33.1	-33.1	-31.59	-33.1	-30.4	26
-34.9	-34.9	-35.2	-35.5	-35.5	-35.2	-35.2	-34.8	-34.9	-36.0	-34.33	-36.0	-31.0	27
-38.9	-38.1	-38.1	-38.1	-38.2	-37.3	-37.0	-37.0	-37.5	-37.8	-37.29	-39.5	-35.8	28
-37.5	-37.7	-35.2	-36.7	-36.3	-36.1	-35.3	-36.1	-36.2	-36.5	-36.55	-38.2	-34.2	29
-34.0	-32.7	-32.0	-32.4	-33.0	-33.6	-34.5	-34.9	-35.7	-36.7	-34.79	-37.5	-32.0	30
-31.04	-30.81	-30.63	-30.55	-30.54	-30.69	-30.84	-30.99	-30.98	-31.05	-30.94	-34.66	-27.22	Mean
-31.02	-30.78	-30.60	-30.51	-30.49	-30.64	-30.78	-30.92	-30.91	-30.97				Corr.
- 0.08	0.16	0.34	0.43	0.45	0.30	0.16	0.02	0.03	- 0.03				D. f. m.

## TEMPERATURE OF THE AIR. C°.

1894. DECEMBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-37.2	-37.1	-37.3	-37.6	-37.9	-38.0	-38.0	-37.9	-37.7	-37.4	-37.3	-37.2	-36.5	-36.2
2	-31.4	-30.9	-30.5	-30.0	-30.1	-30.0	-30.0	-29.2	-28.9	-28.4	-29.2	-30.4	-31.0	-30.9
3	-36.9	-36.0	-33.0	-33.5	-34.5	-34.7	-35.4	-35.8	-35.7	-35.7	-35.3	-35.0	-35.1	-35.3
4	-33.2	-32.8	-34.0	-34.0	-34.8	-34.8	-34.6	-33.1	-32.7	-32.8	-32.8	-33.1	-33.7	-34.2
5	-36.0	-35.7	-35.3	-34.7	-33.9	-33.0	-32.7	-32.2	-32.5	-33.0	-32.3	-32.0	-31.9	-31.8
6	-35.3	-35.7	-35.3	-35.0	-34.8	-34.7	-33.7	-33.4	-33.3	-32.6	-32.0	-31.5	-31.4	-31.4
7	-35.8	-36.0	-37.0	-37.4	-37.4	-37.8	-38.0	-38.6	-38.5	-38.4	-38.5	-38.4	-37.5	-35.1
8	-37.6	-37.6	-37.7	-37.0	-37.3	-37.3	-37.2	-37.5	-38.0	-38.4	-38.5	-38.8	-39.2	-39.1
9	-41.0	-41.1	-41.1	-41.2	-41.3	-41.6	-42.0	-41.3	-41.1	-41.2	-41.6	-41.9	-41.8	-41.7
10	-40.0	-40.3	-41.0	-41.0	-41.7	-41.8	-42.2	-42.4	-42.5	-42.4	-42.3	-42.3	-40.9	-40.4
11	-44.0	-43.7	-43.4	-43.7	-43.2	-42.4	-41.5	-39.2	-38.1	-37.1	-36.2	-35.1	-34.0	-33.6
12	-28.2	-28.6	-28.5	-28.4	-27.9	-27.6	-27.4	-27.2	-27.5	-27.3	-27.2	-26.9	-26.9	-27.2
13	-34.0	-35.8	-35.2	-36.7	-38.7	-39.4	-40.0	-40.8	-41.2	-41.2	-41.0	-41.7	-42.6	-43.0
14	-42.5	-42.1	-41.7	-41.0	-39.5	-38.6	-37.0	-36.3	-35.7	-35.4	-35.0	-35.0	-34.8	-34.7
15	-31.7	-31.3	-31.2	-31.2	-31.3	-32.3	-33.5	-34.0	-34.0	-34.2	-33.0	-29.6	-31.0	-32.2
16	-31.8	-32.0	-32.0	-31.5	-32.0	-32.3	-33.0	-33.1	-33.0	-32.7	-32.4	-32.4	-32.5	-32.3
17	-33.5	-34.8	-35.6	-36.1	-36.9	-37.0	-37.5	-37.7	-37.7	-38.0	-38.1	-38.4	-39.1	-39.1
18	-40.3	-40.2	-39.8	-39.4	-39.4	-39.4	-39.4	-39.9	-40.0	-40.0	-41.1	-42.0	-42.1	-42.2
19	-35.0	-35.7	-36.8	-36.9	-38.6	-39.0	-39.8	-39.8	-39.9	-39.4	-39.0	-38.9	-39.0	-39.1
20	-38.0	-37.7	-37.3	-36.8	-35.9	-35.3	-35.6	-35.6	-34.9	-34.4	-33.7	-33.3	-33.8	-35.1
21	-36.8	-37.2	-37.5	-38.6	-39.0	-39.7	-40.0	-40.5	-40.7	-41.0	-41.4	-40.9	-41.3	-41.4
22	-36.6	-36.9	-37.5	-37.2	-36.6	-35.5	-34.0	-33.5	-33.0	-31.6	-31.0	-30.6	-30.0	-29.5
23	-27.3	-27.0	-27.0	-26.8	-26.7	-26.5	-26.1	-26.0	-25.8	-25.5	-25.3	-25.0	-24.5	-24.1
24	-23.0	-22.4	-23.0	-23.3	-25.5	-27.1	-25.8	-23.8	-24.0	-24.1	-23.9	-23.6	-24.3	-24.7
25	-22.1	-20.7	-21.1	-21.9	-22.2	-22.6	-22.9	-23.7	-25.0	-26.6	-27.3	-28.1	-29.0	-29.5
26	-33.3	-34.0	-35.0	-35.9	-36.6	-37.2	-37.6	-37.7	-38.0	-38.0	-37.7	-37.5	-36.9	-36.3
27	-33.0	-33.3	-33.0	-33.4	-33.2	-32.5	-33.8	-35.0	-34.9	-36.8	-36.0	-35.1	-35.1	-35.3
28	-35.0	-34.5	-33.6	-33.1	-33.0	-33.0	-33.2	-33.2	-32.8	-32.4	-32.0	-32.1	-32.4	-32.6
29	-29.2	-29.9	-28.8	-27.8	-27.7	-27.7	-27.5	-27.5	-27.2	-27.1	-26.8	-26.4	-26.6	-26.4
30	-34.8	-36.0	-37.0	-38.2	-39.0	-40.2	-40.6	-40.7	-41.0	-41.2	-41.5	-41.7	-41.8	-41.9
31	-42.6	-42.6	-42.6	-42.6	-42.6	-42.7	-42.7	-42.5	-42.4	-42.4	-42.5	-42.6	-42.8	-43.2
Mean	-34.75	-34.82	-34.83	-34.90	-35.14	-35.21	-35.25	-35.13	-35.09	-35.05	-34.90	-34.76	-34.82	-34.82
Corr.	-34.84	-34.90	-34.90	-34.96	-35.19	-35.26	-35.29	-35.16	-35.11	-35.07	-34.91	-34.76	-34.81	-34.80
D. f. m.	0.14	0.08	0.08	0.02	- 0.21	- 0.28	- 0.31	- 0.18	- 0.13	- 0.09	0.07	0.22	0.17	0.18

1894. DECEMBER.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-36.0	-35.7	-35.5	-34.9	-35.0	-34.8	-34.9	-33.9	-33.3	-33.0	-36.26	-38.5	-33.0	1
-33.0	-35.3	-36.1	-37.1	-38.1	-38.1	-38.1	-38.1	-37.7	-37.0	-32.90	-38.5	-28.4	2
-35.6	-35.8	-35.9	-35.4	-35.0	-33.4	-33.0	-33.1	-33.2	-33.2	-34.81	-37.0	-32.3	3
-34.6	-35.1	-35.4	-35.8	-36.0	-36.2	-35.8	-36.1	-36.1	-36.0	-34.49	-36.3	-32.7	4
-31.0	-31.8	-32.0	-32.8	-33.4	-34.0	-34.4	-34.6	-34.9	-35.3	-33.39	-36.0	-31.0	5
-30.0	-31.5	-31.9	-32.1	-32.8	-33.1	-34.1	-34.8	-35.1	-35.3	-33.37	-35.7	-29.8	6
-36.1	-36.9	-36.6	-36.9	-37.0	-37.1	-36.8	-36.6	-36.5	-37.1	-37.17	-38.6	-35.8	7
-39.0	-39.5	-40.0	-40.2	-39.8	-40.0	-40.3	-40.3	-40.8	-40.7	-38.93	-40.8	-37.0	8
-41.5	-41.3	-41.2	-41.3	-40.8	-39.9	-40.0	-40.2	-40.4	-40.0	-41.10	-42.3	-39.9	9
-40.6	-40.9	-41.1	-41.8	-42.2	-42.4	-42.6	-43.4	-44.0	-44.0	-41.84	-44.0	-40.0	10
-32.8	-32.4	-32.3	-32.1	-31.5	-30.6	-29.7	-28.6	-28.2	-27.9	-35.89	-44.0	-27.9	11
-27.1	-27.1	-27.0	-27.3	-27.6	-28.1	-28.5	-30.1	-31.3	-32.6	-28.06	-32.6	-26.6	12
-43.6	-43.7	-44.0	-44.4	-44.5	-44.5	-44.3	-43.8	-43.3	-43.0	-41.27	-44.5	-32.6	13
-34.1	-33.9	-33.7	-33.5	-33.5	-33.7	-33.5	-33.1	-33.6	-32.2	-36.00	-43.0	-32.2	14
-32.6	-32.4	-32.4	-32.5	-32.5	-32.6	-32.3	-32.5	-32.5	-32.4	-32.30	-34.9	-29.1	15
-33.0	-32.8	-33.2	-32.8	-33.0	-32.9	-33.0	-32.9	-32.5	-33.0	-32.59	-33.2	-31.0	16
-39.1	-39.3	-39.5	-39.9	-39.8	-39.8	-40.0	-40.2	-40.2	-40.2	-38.23	-40.2	-33.0	17
-42.1	-41.7	-40.0	-38.2	-37.8	-37.3	-36.7	-35.6	-34.8	-34.4	-39.31	-42.2	-34.4	18
-39.0	-39.1	-39.0	-38.1	-37.5	-36.1	-37.0	-39.0	-39.1	-38.3	-38.30	-39.9	-34.7	19
-36.1	-36.6	-36.9	-36.7	-36.8	-37.1	-37.0	-36.9	-36.9	-36.6	-36.04	-38.3	-33.3	20
-41.8	-41.2	-41.1	-41.3	-41.0	-40.8	-40.2	-39.4	-38.1	-37.0	-39.91	-41.8	-36.5	21
-29.2	-28.6	-28.5	-28.1	-28.1	-28.1	-28.1	-28.1	-28.0	-27.5	-31.49	-40.3	-27.5	22
-24.0	-23.2	-22.9	-22.4	-21.9	-21.4	-21.6	-21.8	-22.1	-23.1	-24.50	-27.5	-21.1	23
-24.3	-24.1	-24.1	-24.0	-23.6	-23.4	-23.2	-23.1	-25.4	-23.6	-24.05	-27.1	-22.4	24
-30.2	-31.2	-32.0	-32.8	-33.0	-33.3	-32.9	-32.4	-32.5	-33.0	-27.50	-33.3	-20.7	25
-36.0	-35.6	-35.3	-34.8	-35.3	-35.7	-35.0	-34.5	-34.5	-33.9	-35.93	-38.0	-33.0	26
-34.8	-34.1	-33.7	-33.1	-33.5	-33.5	-34.0	-34.1	-34.0	-35.3	-34.19	-37.3	-32.5	27
-32.6	-32.6	-32.9	-33.1	-32.4	-31.4	-30.6	-29.9	-29.5	-29.2	-32.38	-35.3	-29.2	28
-27.0	-27.1	-27.5	-27.8	-29.0	-31.4	-31.5	-31.3	-32.5	-33.4	-28.55	-33.4	-26.4	29
-42.0	-42.2	-42.4	-42.5	-42.6	-42.5	-42.5	-42.4	-42.5	-42.6	-40.82	-42.6	-33.4	30
-42.9	-42.8	-42.7	-42.9	-43.0	-43.1	-43.1	-43.2	-43.0	-42.5	-42.75	-43.2	-42.4	31
-34.89	-35.02	-35.06	-35.05	-35.10	-35.04	-34.99	-34.97	-35.05	-34.95	-34.98	-38.07	-31.61	Mean
-34.87	-34.99	-35.02	-35.00	-35.05	-34.98	-34.92	-34.89	-34.96	-34.86				Corr.
0.11	-0.01	-0.04	-0.02	-0.07	0.00	0.06	0.09	0.02	0.12				D. f. m.

## TEMPERATURE OF THE AIR. C°.

1895. JANUARY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-42.5	-42.5	-42.5	-42.5	-41.8	-41.5	-41.4	-41.3	-41.5	-41.6	-41.7	-41.7	-41.8	-42.0
2	-38.9	-38.7	-38.5	-38.3	-37.5	-35.9	-35.5	-35.0	-34.6	-33.8	-33.6	-33.5	-32.3	-31.2
3	-37.4	-37.6	-37.5	-37.3	-36.0	-34.9	-34.5	-33.9	-33.4	-32.8	-32.2	-31.4	-30.8	-29.8
4	-27.7	-27.9	-27.8	-27.6	-27.5	-27.2	-27.4	-27.6	-28.0	-28.3	-28.2	-28.2	-28.3	-28.1
5	-27.9	-27.5	-27.6	-27.6	-26.8	-25.5	-24.6	-23.2	-22.5	-22.1	-21.5	-21.1	-20.7	-20.7
6	-18.8	-19.1	-19.9	-19.5	-19.6	-19.0	-18.7	-17.9	-18.1	-19.1	-20.7	-22.2	-22.9	-23.3
7	-24.8	-26.1	-26.0	-25.9	-25.0	-24.1	-25.3	-26.5	-27.0	-27.3	-27.4	-27.4	-27.5	-27.6
8	-26.4	-25.3	-25.1	-24.8	-24.7	-24.6	-24.7	-24.8	-24.8	-24.5	-24.5	-24.5	-24.8	-24.8
9	-24.9	-24.9	-25.2	-25.7	-26.3	-27.3	-28.5	-30.6	-32.2	-32.5	-32.7	-32.7	-32.9	-32.8
10	-29.0	-30.6	-31.5	-33.8	-34.5	-35.4	-36.5	-36.8	-37.6	-38.3	-38.5	-38.8	-39.0	-39.1
11	-31.9	-33.1	-32.0	-29.6	-31.3	-30.8	-29.8	-29.2	-28.7	-28.1	-26.7	-25.0	-25.0	-24.2
12	-19.7	-18.9	-17.4	-16.5	-15.0	-14.0	-13.0	-12.0	-24.2	-26.5	-27.0	-27.4	-28.2	-30.8
13	-31.0	-31.2	-31.1	-31.1	-31.2	-31.4	-32.1	-32.1	-32.8	-31.9	-32.7	-33.3	-33.5	-33.4
14	-35.2	-35.4	-35.6	-36.0	-36.2	-36.7	-36.8	-37.1	-37.3	-37.8	-37.8	-37.8	-38.0	-38.2
15	-41.6	-41.6	-41.9	-42.0	-42.3	-42.6	-42.8	-43.0	-43.0	-42.9	-42.6	-42.5	-42.4	-42.3
16	-42.9	-42.7	-42.4	-42.2	-41.9	-41.7	-41.4	-41.2	-41.0	-41.0	-41.0	-41.1	-41.0	-40.9
17	-41.1	-40.2	-40.0	-40.0	-40.0	-40.0	-40.0	-40.2	-40.6	-40.5	-40.6	-41.2	-41.7	-42.7
18	-46.5	-46.7	-46.5	-45.8	-45.2	-45.0	-44.9	-44.7	-44.5	-44.5	-45.0	-44.9	-44.6	-44.2
19	-37.6	-37.1	-37.5	-37.5	-37.3	-37.1	-37.1	-37.3	-37.3	-37.3	-37.6	-38.1	-38.7	-39.1
20	-35.7	-35.3	-34.9	-35.3	-35.5	-35.7	-35.9	-35.7	-35.7	-36.2	-36.2	-36.3	-36.6	-36.6
21	-34.9	-34.9	-34.5	-34.1	-34.1	-34.0	-34.0	-34.0	-34.3	-34.3	-34.8	-35.0	-35.2	-35.2
22	-34.8	-34.1	-34.8	-34.8	-35.3	-34.8	-34.7	-33.5	-33.0	-32.5	-31.6	-31.9	-31.8	-31.2
23	-32.8	-32.2	-33.9	-34.2	-34.9	-35.0	-36.1	-36.8	-38.1	-39.3	-40.1	-40.9	-41.2	-41.8
24	-40.5	-40.2	-40.2	-40.1	-40.0	-39.9	-39.9	-40.3	-41.2	-42.9	-43.8	-44.7	-45.4	-46.3
25	-49.5	-49.6	-49.6	-49.7	-49.6	-49.6	-49.8	-50.1	-50.1	-50.1	-49.9	-49.6	-49.8	-49.8
26	-42.8	-42.9	-42.5	-41.6	-42.0	-41.9	-41.7	-41.3	-40.6	-39.2	-37.8	-37.8	-37.9	-38.2
27	-39.8	-39.2	-38.2	-35.5	-32.0	-30.0	-28.8	-28.5	-27.9	-27.7	-27.1	-26.4	-26.4	-26.5
28	-26.1	-26.5	-26.8	-28.1	-29.2	-28.7	-27.0	-26.6	-25.4	-25.3	-26.8	-26.8	-26.5	-28.2
29	-34.0	-34.2	-34.6	-34.7	-34.3	-34.8	-34.7	-34.8	-34.5	-34.3	-34.3	-34.3	-34.3	-34.3
30	-35.3	-35.4	-35.2	-35.2	-35.2	-33.7	-33.5	-33.2	-33.0	-29.0	-27.7	-26.5	-25.8	-25.0
31	-20.0	-19.8	-19.8	-19.6	-19.2	-19.3	-19.6	-19.0	-19.3	-19.6	-19.7	-19.7	-20.7	-22.5
Mean	-33.94	-33.92	-33.90	-33.76	-33.59	-33.29	-33.25	-33.17	-33.62	-33.59	-33.61	-33.64	-33.73	-33.90
Corr.	-33.73	-33.73	-33.73	-33.61	-33.46	-33.18	-33.15	-33.09	-33.56	-33.55	-33.59	-33.64	-33.75	-33.94
D. f. m.	-0.02	-0.02	-0.02	0.10	0.25	0.53	0.56	0.62	0.15	0.16	0.12	0.07	0.04	-0.23



1895. JANUARY.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-41.6	-41.5	-41.4	-41.3	-40.7	-40.2	-39.6	-39.1	-39.1	-39.1	-41.25	-42.9	-39.1	1
-32.2	-33.1	-33.8	-34.4	-34.8	-35.0	-35.5	-36.2	-36.8	-37.1	-35.26	-39.1	-31.0	2
-29.0	-28.4	-28.2	-27.9	-27.7	-27.4	-27.3	-27.1	-27.3	-27.5	-31.55	-36.0	-27.1	3
-29.0	-29.2	-30.0	-29.6	-29.7	-28.3	-27.9	-28.4	-28.5	-28.3	-28.28	-30.5	-27.2	4
-20.4	-20.1	-20.1	-20.1	-20.0	-19.2	-19.0	-19.0	-18.9	-18.7	-22.28	-28.3	-18.7	5
-23.4	-23.5	-23.0	-22.9	-22.5	-24.7	-24.0	-25.5	-25.4	-23.1	-21.53	-25.5	-17.6	6
-27.8	-27.9	-27.8	-27.3	-27.0	-26.9	-27.4	-27.9	-27.8	-27.2	-26.79	-28.7	-23.4	7
-24.9	-24.8	-24.5	-24.2	-24.1	-24.4	-24.6	-24.5	-24.4	-25.0	-24.74	-27.2	-23.5	8
-31.9	-30.6	-30.5	-30.0	-32.4	-34.1	-33.8	-32.5	-32.3	-31.1	-30.35	-34.1	-23.5	9
-39.1	-38.8	-37.4	-36.1	-35.2	-33.9	-32.0	-30.8	-30.2	-30.0	-35.12	-39.3	-28.8	10
-23.4	-22.5	-22.2	-22.2	-22.5	-22.5	-22.1	-21.5	-20.7	-20.2	-26.05	-33.3	-20.2	11
-31.3	-31.9	-31.9	-31.6	-31.9	-31.4	-31.4	-31.0	-30.8	-30.4	-25.18	-32.0	-11.7	12
-32.8	-33.1	-33.5	-34.1	-33.7	-33.2	-33.8	-34.2	-34.8	-34.9	-32.79	-34.9	-30.4	13
-38.3	-38.5	-38.6	-38.7	-39.0	-39.1	-40.2	-41.2	-41.5	-41.6	-38.03	-41.6	-34.9	14
-42.1	-41.9	-42.3	-42.5	-42.8	-43.0	-43.1	-43.2	-43.1	-43.0	-42.52	-43.2	-41.6	15
-40.9	-40.9	-40.9	-41.0	-40.9	-40.8	-40.8	-41.2	-41.2	-41.2	-41.34	-43.0	-40.8	16
-43.5	-44.2	-44.9	-45.1	-45.2	-45.6	-45.8	-46.2	-46.2	-46.5	-42.58	-46.5	-40.0	17
-43.9	-42.0	-41.5	-40.5	-39.9	-39.5	-39.4	-38.7	-38.4	-38.1	-43.12	-46.7	-38.1	18
-39.0	-39.1	-39.0	-38.8	-38.0	-36.5	-36.0	-35.3	-35.4	-35.2	-37.45	-39.1	-35.2	19
-36.9	-36.9	-37.0	-37.0	-37.1	-36.2	-35.5	-35.1	-34.6	-34.3	-35.92	-37.1	-34.3	20
-35.8	-36.1	-36.5	-36.6	-36.5	-36.4	-36.7	-36.1	-35.9	-35.4	-35.22	-36.7	-33.5	21
-30.8	-30.2	-30.0	-29.4	-29.4	-29.6	-30.0	-30.8	-31.7	-33.0	-32.24	-35.4	-29.4	22
-42.0	-42.9	-42.5	-42.5	-42.5	-41.4	-40.9	-40.7	-40.7	-40.2	-38.90	-43.1	-32.2	23
-47.0	-47.6	-48.2	-48.6	-49.2	-49.5	-49.6	-50.1	-49.8	-49.5	-44.77	-50.1	-39.9	24
-49.7	-49.3	-49.1	-49.1	-48.8	-48.9	-48.5	-47.6	-47.1	-44.0	-49.12	-50.3	-44.0	25
-38.8	-39.5	-40.2	-40.4	-40.7	-40.9	-40.8	-40.8	-40.7	-40.3	-40.48	-44.0	-37.8	26
-26.5	-27.1	-27.3	-27.6	-27.5	-27.1	-26.5	-26.5	-26.3	-25.8	-29.26	-40.3	-25.8	27
-28.7	-28.8	-29.0	-29.9	-30.6	-30.8	-32.0	-32.4	-33.1	-33.8	-28.63	-33.8	-25.3	28
-34.5	-34.7	-34.8	-35.5	-35.3	-35.1	-35.0	-35.0	-34.8	-35.0	-34.24	-35.8	-33.8	29
-24.3	-23.6	-22.5	-21.9	-21.0	-20.0	-19.8	-20.1	-20.1	-20.0	-27.38	-35.4	-19.8	30
-23.3	-24.5	-24.7	-25.3	-26.2	-26.3	-26.2	-26.3	-27.6	-28.3	-22.35	-28.3	-19.3	31
-33.96	-33.98	-33.98	-33.94	-33.96	-33.80	-33.72	-33.71	-33.72	-33.48	-33.71	-37.49	-29.93	Mean
-34.02	-34.06	-34.08	-34.05	-34.09	-33.95	-33.89	-33.90	-33.93	-33.71				Corr.
-0.31	-0.35	-0.37	-0.34	-0.38	-0.24	-0.18	-0.19	-0.22	0.00				D. f. m.

TEMPERATURE OF THE AIR. C°.

1895. FEBRUARY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-29.3	-29.7	-29.7	-30.0	-30.8	-30.9	-31.6	-32.1	-32.1	-32.0	-33.0	-33.8	-34.4	-35.1
2	-38.3	-38.5	-39.1	-39.3	-39.5	-39.9	-40.2	-40.2	-39.0	-38.3	-38.9	-38.2	-36.8	-35.7
3	-39.7	-39.7	-39.8	-40.0	-38.8	-35.6	-33.8	-32.1	-31.7	-30.7	-30.0	-29.8	-30.2	-31.1
4	-31.2	-30.6	-29.3	-27.5	-26.0	-25.4	-24.8	-23.8	-22.9	-22.0	-21.8	-21.4	-20.5	-20.3
5	-33.0	-33.5	-33.4	-33.5	-33.4	-33.4	-33.3	-33.1	-32.8	-32.6	-32.8	-33.1	-33.3	-32.6
6	-35.9	-34.6	-33.3	-32.0	-30.6	-31.1	-30.8	-30.1	-29.8	-29.5	-30.3	-31.8	-34.0	-35.1
7	-37.5	-37.2	-37.5	-37.9	-39.1	-39.8	-40.1	-40.5	-40.9	-41.3	-42.1	-43.2	-43.0	-42.9
8	-34.8	-34.2	-34.0	-33.5	-33.5	-33.6	-33.9	-34.1	-34.2	-34.1	-34.0	-33.8	-33.8	-33.6
9	-34.4	-35.5	-36.5	-37.5	-38.0	-39.1	-39.7	-40.2	-40.9	-41.5	-42.0	-42.2	-42.6	-42.6
10	-44.3	-44.4	-44.4	-45.3	-45.4	-45.5	-45.8	-45.8	-45.7	-45.7	-45.8	-45.0	-45.5	-44.9
11	-32.2	-31.6	-31.7	-31.0	-30.8	-30.5	-30.5	-30.5	-30.6	-30.7	-30.7	-30.6	-31.1	-30.6
12	-27.2	-27.5	-26.9	-26.9	-26.7	-26.9	-26.9	-26.8	-27.0	-27.4	-26.9	-26.4	-26.5	-26.0
13	-31.1	-31.7	-32.8	-34.0	-34.7	-35.3	-36.5	-37.3	-38.1	-38.4	-39.5	-40.5	-40.1	-39.8
14	-41.2	-41.8	-42.7	-42.5	-42.5	-42.5	-42.5	-42.6	-42.0	-42.2	-42.3	-41.6	-42.0	-42.2
15	-44.5	-44.0	-44.2	-44.2	-44.0	-44.5	-44.7	-44.9	-44.9	-45.0	-44.3	-44.1	-44.0	-43.2
16	-42.8	-43.0	-43.2	-43.4	-43.4	-43.4	-43.5	-43.6	-44.0	-43.5	-43.4	-42.2	-43.0	-43.2
17	-42.6	-41.4	-41.0	-40.0	-39.7	-39.5	-39.4	-39.1	-39.0	-38.4	-38.1	-38.1	-37.8	-37.1
18	-38.1	-39.0	-38.8	-39.0	-39.0	-39.5	-39.8	-40.7	-41.0	-41.5	-42.1	-43.2	-43.3	-43.2
19	-46.3	-46.2	-46.1	-46.1	-46.0	-45.8	-45.8	-45.2	-44.7	-44.0	-43.4	-43.0	-41.9	-41.1
20	-37.6	-38.2	-38.0	-38.6	-38.1	-38.5	-38.6	-38.9	-40.0	-41.7	-41.0	-40.2	-41.1	-42.7
21	-45.0	-45.3	-45.2	-45.5	-45.3	-45.4	-45.5	-45.7	-45.2	-45.2	-44.7	-44.7	-44.7	-43.8
22	-40.7	-40.1	-38.6	-37.8	-37.5	-37.2	-35.8	-34.8	-34.7	-35.1	-36.2	-37.8	-38.3	-39.2
23	-39.0	-39.0	-39.0	-38.8	-38.0	-36.5	-35.6	-35.7	-35.4	-35.3	-34.9	-34.7	-34.8	-34.7
24	-35.4	-35.2	-35.3	-35.5	-36.5	-36.7	-36.7	-36.7	-37.1	-37.4	-38.0	-38.7	-39.1	-39.8
25	-38.0	-40.0	-40.8	-41.2	-41.4	-42.2	-42.2	-42.4	-41.2	-41.3	-40.0	-39.5	-40.6	-41.6
26	-39.9	-39.3	-39.3	-39.2	-39.2	-37.9	-36.5	-33.1	-32.5	-32.2	-31.9	-30.8	-30.6	-30.5
27	-36.0	-37.0	-37.3	-37.7	-37.8	-38.2	-38.9	-39.0	-39.0	-39.0	-38.9	-37.1	-37.0	-36.9
28	-34.4	-33.8	-34.0	-34.1	-34.5	-34.6	-34.6	-34.7	-34.6	-34.6	-34.2	-33.6	-31.6	-30.5
Mean	-37.51	-37.57	-37.53	-37.57	-37.51	-37.48	-37.43	-37.28	-37.18	-37.16	-37.19	-37.11	-37.20	-37.14
Corr.	-37.46	-37.53	-37.49	-37.53	-37.48	-37.45	-37.41	-37.26	-37.17	-37.15	-37.19	-37.35	-37.20	-37.15
D. f. m.	-0.28	-0.35	-0.31	-0.35	-0.30	-0.27	-0.23	-0.08	0.01	0.03	-0.01	0.07	-0.02	0.03

1895. FEBRUARY.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-35.3	-35.8	-36.1	-36.7	-37.0	-37.1	-37.4	-38.1	-38.2	-38.0	-33.93	-38.2	-29.3	1
-35.3	-35.8	-35.5	-35.2	-35.6	-35.8	-36.1	-37.9	-39.2	-39.5	-37.83	-40.3	-35.2	2
-32.8	-31.1	-31.0	-32.2	-33.0	-33.2	-33.5	-33.4	-33.5	-32.8	-33.73	-42.0	-29.5	3
-20.3	-25.0	-28.0	-30.1	-31.5	-32.2	-32.1	-31.2	-31.5	-32.4	-26.74	-32.2	-20.3	4
-32.9	-32.2	-32.4	-32.4	-33.0	-33.2	-34.0	-35.1	-36.1	-36.3	-33.39	-36.3	-31.1	5
-35.7	-36.2	-36.3	-36.3	-36.2	-36.2	-36.3	-36.6	-36.9	-37.0	-33.86	-37.0	-29.0	6
-42.8	-41.2	-40.0	-39.1	-38.2	-37.4	-36.2	-36.1	-35.5	-34.9	-39.35	-43.2	-34.0	7
-33.8	-34.1	-34.1	-34.1	-33.9	-33.7	-33.7	-33.7	-33.9	-34.4	-33.94	-34.9	-33.4	8
-43.0	-43.0	-43.3	-43.4	-43.4	-43.3	-43.8	-44.0	-44.0	-44.5	-41.18	-44.5	-34.4	9
-44.2	-43.9	-41.9	-38.7	-36.4	-34.9	-33.6	-33.2	-32.8	-32.4	-41.90	-45.8	-32.4	10
-30.6	-30.6	-31.0	-30.4	-29.8	-29.1	-28.6	-28.1	-27.5	-27.4	-30.26	-32.4	-27.4	11
-25.8	-25.7	-25.9	-25.9	-26.1	-26.3	-26.1	-27.7	-28.7	-30.7	-26.87	-30.7	-25.7	12
-39.7	-39.4	-39.6	-39.6	-39.9	-39.4	-40.0	-40.7	-40.8	-41.2	-37.92	-41.2	-30.7	13
-42.0	-42.2	-42.5	-43.2	-43.1	-43.1	-43.3	-43.8	-43.2	-43.8	-42.53	-43.8	-41.2	14
-41.9	-42.2	-42.7	-42.9	-42.0	-40.9	-41.1	-41.8	-42.4	-42.5	-43.37	-45.0	-40.9	15
-43.3	-43.3	-43.3	-43.0	-43.2	-43.2	-43.0	-42.9	-42.5	-42.2	-43.15	-44.0	-42.2	16
-37.3	-37.1	-37.6	-38.2	-38.5	-35.9	-36.3	-36.9	-37.3	-37.5	-38.49	-42.6	-35.3	17
-43.6	-43.6	-43.8	-44.2	-44.5	-45.0	-44.9	-45.0	-45.5	-46.3	-42.28	-45.0	-37.5	18
-39.0	-37.4	-37.4	-36.4	-36.7	-35.8	-35.5	-36.3	-36.3	-36.1	-41.35	-46.3	-35.5	19
-42.7	-42.8	-42.8	-42.8	-43.4	-44.2	-43.9	-44.3	-44.5	-44.7	-41.22	-44.7	-36.1	20
-43.5	-43.4	-43.0	-42.2	-44.2	-43.5	-42.4	-40.8	-40.3	-40.7	-43.97	-45.7	-40.3	21
-39.2	-40.2	-40.3	-40.3	-40.6	-40.5	-40.5	-40.5	-39.8	-39.2	-38.54	-40.7	-34.7	22
-34.6	-34.1	-34.2	-34.6	-34.8	-34.9	-35.0	-34.8	-34.9	-34.9	-35.76	-39.2	-34.7	23
-39.7	-39.5	-38.6	-36.1	-34.2	-33.4	-34.1	-35.3	-36.9	-37.2	-36.80	-39.9	-33.2	24
-41.5	-42.1	-42.2	-42.2	-41.7	-41.2	-41.3	-41.2	-41.4	-40.9	-41.17	-42.4	-37.2	25
-30.0	-29.5	-29.6	-29.3	-30.7	-32.6	-33.1	-34.1	-34.5	-35.5	-33.83	-40.9	-29.3	26
-37.0	-36.4	-36.2	-35.8	-35.4	-35.4	-35.3	-35.4	-35.3	-34.5	-36.92	-39.1	-34.5	27
-29.7	-28.1	-27.0	-26.0	-26.0	-25.9	-25.3	-25.1	-25.1	-25.3	-30.72	-35.8	-24.9	28
-37.04	-36.99	-37.01	-36.83	-36.89	-36.69	-36.66	-36.93	-37.09	-37.24	-37.18	-40.49	-33.21	Mean
-37.05	-37.01	-37.03	-36.86	-36.92	-36.73	-36.70	-36.97	-37.14	-37.29				Corr.
0.13	0.17	0.15	0.32	0.26	0.45	0.48	0.21	0.04	-0.11				D. f. m.

## TEMPERATURE OF THE AIR. C°.

1895. MARCH.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-25.4	-27.3	-26.7	-26.2	-26.2	-26.3	-26.7	-27.1	-27.2	-27.6	-26.9	-26.3	-25.4	-25.0
2	-33.8	-34.5	-35.0	-35.8	-36.3	-36.5	-38.0	-39.0	-39.3	-39.5	-40.0	-40.7	-41.0	-40.7
3	-38.1	-38.0	-38.1	-38.5	-38.4	-38.3	-38.8	-38.7	-38.1	-37.9	-37.7	-38.0	-38.7	-38.5
4	-38.6	-39.0	-38.7	-38.5	-38.5	-38.5	-38.3	-37.5	-37.9	-37.8	-38.0	-38.2	-38.5	-38.5
5	-38.4	-38.1	-37.9	-37.7	-37.6	-37.5	-36.0	-35.7	-35.0	-35.5	-35.4	-35.3	-35.1	-34.6
6	-34.2	-34.0	-33.0	-32.5	-32.2	-32.0	-31.6	-31.8	-32.1	-32.6	-32.9	-32.8	-33.0	-33.1
7	-33.8	-34.0	-34.0	-34.0	-33.8	-33.8	-33.7	-33.1	-32.9	-32.0	-32.0	-31.1	-31.1	-31.2
8	-31.6	-32.0	-31.9	-31.5	-31.3	-31.6	-32.2	-32.0	-32.1	-32.4	-32.6	-32.4	-32.4	-32.2
9	-32.9	-33.0	-33.4	-32.4	-32.4	-32.9	-33.1	-33.0	-32.3	-32.6	-32.5	-32.3	-32.2	-32.2
10	-32.0	-32.4	-33.0	-32.2	-32.5	-33.4	-33.9	-33.6	-33.4	-34.9	-35.7	-34.7	-34.3	-33.8
11	-36.9	-36.8	-36.0	-35.8	-34.1	-34.5	-35.7	-35.2	-34.3	-34.1	-34.7	-34.6	-35.4	-35.8
12	-35.4	-34.8	-34.8	-33.3	-32.1	-29.7	-28.3	-27.9	-28.0	-28.3	-27.0	-26.1	-26.0	-25.5
13	-21.5	-22.7	-22.9	-22.0	-21.5	-21.5	-22.0	-22.8	-24.0	-25.5	-26.5	-27.4	-28.7	-28.2
14	-33.2	-33.7	-33.9	-35.0	-35.3	-34.5	-34.0	-33.8	-32.5	-31.6	-30.8	-30.7	-30.7	-30.4
15	-32.0	-32.3	-33.0	-33.0	-32.0	-31.3	-30.3	-29.4	-29.9	-30.1	-29.0	-26.7	-25.4	-24.8
16	-26.0	-26.3	-26.6	-27.6	-28.0	-29.0	-29.8	-29.9	-30.0	-31.1	-31.3	-31.4	-31.7	-32.1
17	-37.5	-37.7	-38.0	-38.5	-38.4	-38.2	-38.1	-38.1	-37.5	-37.4	-37.1	-37.2	-37.1	-37.2
18	-33.8	-32.0	-33.3	-33.5	-34.2	-35.5	-36.2	-36.1	-36.6	-36.6	-36.3	-36.1	-35.8	-35.6
19	-34.3	-34.8	-35.2	-35.7	-35.9	-36.4	-36.7	-37.2	-37.5	-37.4	-37.4	-37.1	-36.9	-36.8
20	-40.6	-40.5	-40.4	-40.3	-40.2	-40.1	-40.0	-39.9	-39.7	-39.5	-39.4	-39.2	-39.3	-39.2
21	-41.4	-41.5	-41.9	-42.0	-42.0	-42.0	-41.9	-41.8	-41.4	-40.9	-41.0	-40.7	-40.6	-40.2
22	-40.1	-40.1	-40.1	-40.1	-40.1	-40.1	-40.1	-40.2	-39.8	-39.3	-39.0	-38.3	-38.3	-38.3
23	-40.4	-40.4	-40.5	-40.9	-41.0	-41.1	-41.1	-40.9	-40.6	-40.2	-40.0	-39.6	-39.4	-39.2
24	-39.7	-39.6	-39.1	-39.4	-38.4	-38.1	-37.5	-36.3	-35.4	-34.3	-33.5	-34.0	-33.4	-33.9
25	-33.9	-34.2	-34.0	-34.4	-34.6	-34.9	-35.1	-35.1	-35.3	-35.3	-35.2	-35.1	-35.3	-35.5
26	-40.1	-40.5	-40.4	-40.3	-40.8	-41.2	-40.9	-40.4	-39.8	-39.3	-39.6	-39.8	-39.2	-38.6
27	-39.5	-39.8	-40.1	-40.4	-40.3	-40.3	-40.3	-40.3	-40.0	-39.4	-39.1	-38.7	-38.5	-38.6
28	-40.0	-40.2	-40.2	-40.2	-40.4	-40.6	-39.8	-38.9	-38.3	-37.8	-37.3	-36.9	-36.6	-36.1
29	-35.3	-36.1	-34.8	-33.9	-35.1	-36.1	-36.7	-36.7	-36.9	-36.9	-36.9	-36.3	-36.2	-36.1
30	-40.5	-40.8	-40.9	-40.9	-40.9	-41.2	-40.1	-39.1	-38.9	-38.1	-37.5	-37.0	-36.8	-36.5
31	-36.4	-35.9	-35.0	-34.7	-34.0	-34.0	-32.9	-31.1	-30.4	-31.3	-31.0	-30.4	-30.0	-29.4
Mean	-35.40	-35.58	-35.57	-35.52	-35.44	-35.52	-35.48	-35.25	-35.07	-35.07	-34.95	-34.68	-34.61	-34.45
Corr.	-35.38	-35.56	-35.56	-35.51	-35.43	-35.51	-35.47	-35.24	-35.07	-35.07	-34.95	-34.68	-34.61	-34.45
D. f. m.	-0.37	-0.55	-0.55	-0.50	-0.42	-0.50	-0.46	-0.23	-0.06	-0.06	0.06	0.33	0.40	0.56

1895. MARCH.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-25.0	-25.1	-25.0	-25.3	-26.1	-26.7	-28.2	-30.7	-31.0	-32.0	-26.89	-32.0	-24.9	1
-40.5	-40.2	-39.9	-39.7	-40.3	-40.2	-40.1	-39.5	-39.4	-38.8	-38.70	-41.0	-32.0	2
-39.0	-39.1	-39.3	-38.6	-39.7	-38.2	-38.2	-38.7	-38.6	-38.3	-38.48	-39.7	-37.7	3
-38.5	-38.3	-38.0	-37.8	-37.9	-38.2	-38.0	-38.6	-38.5	-38.5	-38.28	-39.4	-37.5	4
-34.6	-34.1	-34.0	-33.6	-33.9	-33.3	-33.4	-33.4	-33.6	-33.7	-35.31	-38.5	-33.3	5
-32.9	-32.4	-33.0	-33.5	-33.4	-33.1	-33.7	-33.8	-33.7	-33.5	-32.53	-34.4	-31.2	6
-31.1	-30.9	-30.9	-30.8	-30.7	-30.1	-30.0	-30.6	-31.3	-31.0	-32.00	-34.2	-29.5	7
-32.3	-32.5	-32.4	-32.4	-32.5	-32.2	-32.4	-32.0	-32.6	-32.4	-32.16	-33.0	-29.5	8
-32.3	-32.4	-32.4	-32.2	-32.5	-32.8	-32.7	-32.5	-32.0	-31.9	-32.54	-33.5	-31.9	9
-34.5	-34.5	-36.7	-34.8	-35.2	-35.7	-36.4	-35.8	-35.9	-36.3	-34.40	-36.4	-29.7	10
-36.0	-36.1	-36.1	-36.3	-36.5	-36.6	-36.4	-35.5	-35.6	-35.5	-35.60	-37.0	-33.6	11
-25.4	-25.5	-26.1	-25.8	-25.0	-24.1	-23.5	-22.8	-22.2	-21.5	-27.46	-35.5	-21.5	12
-29.0	-28.4	-29.6	-30.1	-30.8	-31.4	-31.8	-31.4	-32.0	-32.5	-26.84	-36.0	-21.4	13
-30.8	-31.5	-31.2	-31.1	-31.0	-31.1	-31.7	-32.2	-32.3	-32.2	-32.30	-36.0	-30.4	14
-25.3	-24.4	-23.8	-24.0	-24.7	-24.3	-24.2	-24.8	-25.0	-25.3	-27.71	-34.3	-23.6	15
-31.7	-31.8	-32.0	-34.3	-34.7	-35.2	-36.2	-37.1	-37.4	-37.5	-31.61	-37.5	-25.3	16
-37.2	-37.1	-37.8	-37.7	-35.7	-34.4	-34.8	-35.4	-35.8	-35.6	-37.06	-39.0	-34.4	17
-35.3	-34.5	-34.0	-32.6	-32.6	-32.8	-33.0	-33.2	-33.5	-34.0	-34.46	-37.0	-31.9	18
-36.5	-37.8	-38.6	-39.1	-40.5	-40.2	-40.9	-40.8	-40.8	-40.7	-37.72	-40.9	-31.0	19
-39.3	-39.6	-40.2	-40.7	-41.0	-41.2	-41.0	-40.9	-41.0	-41.1	-40.18	-41.2	-39.2	20
-40.2	-40.2	-40.1	-40.1	-40.3	-40.4	-40.4	-40.2	-40.1	-40.1	-40.89	-42.1	-40.1	21
-38.2	-38.4	-38.4	-38.6	-38.5	-39.1	-39.2	-39.4	-40.0	-40.5	-39.34	-40.5	-38.2	22
-39.3	-39.5	-39.4	-39.4	-39.8	-39.7	-39.9	-39.9	-39.8	-39.9	-40.08	-41.2	-39.2	23
-33.4	-33.3	-33.4	-33.8	-33.7	-33.1	-32.8	-32.6	-32.9	-33.2	-35.20	-39.9	-32.6	24
-35.9	-36.1	-36.2	-36.3	-37.0	-37.8	-38.3	-38.8	-39.2	-39.6	-35.96	-39.6	-33.2	25
-38.3	-38.1	-38.2	-38.3	-38.6	-38.9	-39.0	-39.0	-39.0	-39.1	-39.48	-41.4	-38.1	26
-38.7	-38.7	-38.8	-38.8	-39.0	-39.2	-39.5	-40.0	-40.0	-39.9	-39.50	-40.9	-38.5	27
-35.9	-35.6	-35.5	-35.4	-36.0	-35.4	-34.4	-35.1	-36.1	-36.1	-37.45	-40.6	-33.7	28
-36.1	-36.3	-36.7	-36.9	-37.2	-37.7	-38.9	-39.1	-40.0	-40.8	-36.82	-40.8	-33.7	29
-36.3	-36.2	-36.8	-35.7	-35.0	-35.6	-36.0	-36.1	-36.5	-36.5	-37.91	-41.2	-34.7	30
-28.0	-28.1	-27.2	-26.1	-26.1	-25.5	-25.3	-26.0	-26.8	-26.5	-30.09	-36.9	-24.6	31
-34.44	-34.41	-34.57	-34.51	-34.71	-34.65	-34.85	-35.03	-35.25	-35.31	-35.01	-38.12	-32.23	Mean
-34.44	-34.42	-34.58	-34.52	-34.72	-34.66	-34.86	-35.05	-35.27	-35.33				Corr.
0.57	0.59	0.43	0.49	0.29	0.35	0.15	- 0.04	- 0.26	- 0.32				D. f. m.

## TEMPERATURE OF THE AIR. C°.

1895. APRIL.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-26.5	-26.0	-25.6	-25.0	-25.0	-25.2	-26.1	-24.8	-25.3	-24.7	-23.5	-24.0	-24.0	-25.0
2	-32.0	-31.3	-31.4	-31.5	-31.8	-32.0	-32.2	-32.4	-31.8	-31.3	-30.9	-30.4	-30.4	-30.3
3	-30.9	-31.2	-31.4	-31.5	-31.4	-31.2	-30.7	-29.4	-29.3	-28.9	-28.1	-27.6	-27.4	-26.8
4	-31.8	-32.1	-33.0	-33.3	-33.3	-32.8	-32.8	-31.1	-30.5	-29.8	-29.6	-29.0	-29.1	-29.1
5	-24.8	-24.7	-23.9	-24.4	-24.6	-25.2	-26.5	-27.1	-28.0	-28.7	-28.6	-28.4	-27.6	-26.3
6	-25.1	-27.6	-28.0	-26.1	-27.2	-28.0	-28.5	-29.0	-29.5	-29.8	-30.0	-30.5	-30.8	-31.1
7	-38.0	-38.1	-38.4	-38.4	-37.5	-36.7	-34.1	-33.8	-32.1	-31.5	-30.7	-30.1	-29.8	-29.5
8	-30.9	-32.8	-33.0	-33.1	-32.3	-32.2	-32.1	-32.1	-32.0	-31.8	-31.7	-31.6	-31.4	-31.2
9	-35.0	-34.4	-34.4	-34.3	-34.2	-34.2	-34.2	-34.2	-33.5	-33.0	-31.9	-31.5	-31.7	-31.2
10	-34.6	-34.9	-34.1	-34.1	-34.0	-34.0	-33.3	-31.7	-31.8	-31.2	-30.8	-30.1	-29.7	-29.3
11	-33.3	-34.0	-34.4	-33.0	-32.8	-32.8	-32.7	-32.0	-31.4	-30.3	-29.8	-28.6	-28.1	-27.9
12	-32.0	-31.5	-31.2	-30.7	-30.0	-29.0	-29.0	-28.1	-28.0	-27.5	-26.9	-27.4	-28.0	-28.1
13	-30.8	-31.0	-30.9	-30.5	-29.1	-27.7	-25.3	-24.0	-22.5	-22.9	-22.0	-21.3	-21.1	-21.0
14	-22.0	-22.0	-22.0	-22.2	-22.1	-22.0	-21.8	-22.0	-21.5	-21.8	-22.0	-21.7	-21.1	-20.0
15	-27.5	-28.2	-27.5	-27.2	-27.0	-27.4	-26.8	-26.5	-26.3	-26.1	-25.9	-25.9	-26.9	-26.8
16	-30.0	-30.1	-30.0	-29.7	-29.7	-28.9	-29.2	-28.4	-28.0	-26.8	-26.9	-27.1	-27.0	-26.9
17	-29.8	-30.0	-30.7	-30.8	-30.7	-30.5	-30.3	-30.0	-30.0	-29.8	-29.4	-29.1	-28.5	-28.3
18	-28.0	-29.7	-29.6	-29.4	-29.6	-28.9	-28.0	-27.3	-26.7	-25.8	-25.9	-25.3	-25.0	-23.9
19	-27.5	-28.1	-28.5	-28.5	-28.9	-28.0	-27.7	-27.3	-26.7	-26.4	-26.4	-26.2	-26.6	-25.0
20	-28.4	-28.5	-28.5	-28.1	-28.2	-28.3	-28.2	-27.8	-27.8	-27.8	-27.6	-27.3	-27.0	-27.1
21	-30.3	-30.6	-30.6	-30.6	-30.6	-30.4	-30.1	-30.1	-29.8	-29.2	-28.6	-28.5	-28.2	-27.9
22	-31.5	-31.5	-31.4	-31.0	-30.7	-29.5	-29.2	-28.6	-27.9	-27.1	-26.5	-25.4	-25.0	-24.6
23	-27.5	-29.0	-30.0	-30.8	-30.3	-30.8	-31.0	-31.0	-30.9	-30.9	-30.6	-31.1	-30.8	-30.8
24	-33.4	-33.5	-33.5	-33.2	-33.2	-33.0	-32.5	-32.1	-31.8	-30.9	-31.0	-30.0	-29.8	-29.7
25	-33.5	-33.5	-33.1	-33.1	-32.3	-32.0	-31.3	-30.7	-29.9	-30.1	-29.9	-29.6	-29.6	-29.1
26	-31.9	-31.4	-31.4	-31.9	-32.0	-31.9	-31.7	-30.7	-30.3	-30.2	-30.0	-29.8	-30.1	-30.2
27	-32.0	-31.9	-31.8	-32.1	-31.5	-31.5	-30.8	-30.0	-29.7	-29.5	-29.3	-28.9	-28.9	-28.6
28	-31.2	-31.6	-31.6	-31.9	-32.4	-31.4	-30.0	-29.1	-29.0	-28.6	-28.0	-27.5	-27.8	-27.6
29	-29.3	-29.1	-28.3	-27.8	-27.3	-27.6	-27.7	-26.6	-25.7	-25.1	-24.7	-24.1	-23.7	-24.2
30	-28.0	-28.3	-28.2	-27.5	-27.4	-28.5	-26.2	-26.0	-25.3	-24.5	-24.5	-23.7	-24.0	-23.9
Mean	-30.25	-30.55	-30.55	-30.39	-30.24	-30.05	-29.66	-29.13	-28.76	-28.40	-28.03	-27.72	-27.64	-27.38
Corr.	-30.23	-30.54	-30.54	-30.38	-30.23	-30.04	-29.65	-29.12	-28.76	-28.40	-28.03	-27.72	-27.64	-27.38
D. f. m.	-1.34	-1.65	-1.65	-1.49	-1.34	-1.15	-0.76	-0.23	0.13	0.49	0.86	1.17	1.25	1.51

1895. APRIL.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-24.7	-26.7	-27.6	-28.2	-29.2	-29.5	-30.4	-30.5	-31.0	-32.0	-26.69	-32.0	-23.4	1
-30.2	-30.1	-30.1	-30.1	-29.9	-29.8	-29.5	-29.2	-30.0	-30.0	-30.77	-33.3	-28.8	2
-26.8	-27.6	-28.0	-28.3	-28.5	-29.2	-29.2	-29.3	-30.0	-30.6	-29.30	-31.5	-26.2	3
-28.0	-27.4	-27.0	-26.9	-27.0	-27.3	-26.1	-25.4	-25.0	-24.9	-29.26	-33.5	-24.9	4
-25.8	-25.1	-25.0	-24.0	-23.8	-23.3	-23.3	-23.3	-25.1	-25.8	-25.54	-29.0	-23.0	5
-31.4	-32.1	-33.1	-33.6	-34.3	-34.9	-35.5	-35.7	-37.1	-37.4	-31.10	-37.4	-25.1	6
-29.4	-28.1	-29.5	-29.8	-31.3	-32.1	-32.6	-32.4	-32.4	-31.8	-32.84	-38.4	-27.7	7
-31.7	-32.2	-32.1	-32.1	-32.7	-33.3	-34.0	-34.4	-35.3	-35.3	-32.55	-35.3	-30.9	8
-31.4	-32.1	-32.4	-32.3	-33.3	-34.0	-34.0	-34.0	-34.2	-34.2	-33.32	-35.3	-31.0	9
-29.3	-29.6	-30.2	-30.5	-31.5	-31.5	-31.9	-32.1	-32.3	-32.8	-31.93	-34.9	-28.5	10
-28.3	-29.1	-28.9	-29.3	-29.2	-30.6	-31.5	-31.5	-31.3	-32.0	-30.95	-34.4	-27.0	11
-27.7	-28.1	-28.2	-28.1	-28.8	-28.4	-29.8	-29.2	-30.4	-30.8	-29.04	-32.3	-26.2	12
-21.0	-20.9	-21.3	-21.4	-22.0	-22.3	-24.2	-24.5	-22.4	-22.0	-24.25	-31.4	-19.7	13
-20.2	-20.2	-20.5	-20.3	-21.0	-21.4	-23.8	-25.9	-27.0	-27.5	-22.17	-27.5	-19.0	14
-26.4	-26.0	-26.5	-26.2	-26.5	-26.8	-27.8	-28.8	-28.9	-29.5	-27.06	-29.5	-24.7	15
-27.3	-27.3	-27.5	-27.6	-27.2	-27.2	-27.5	-27.3	-27.9	-28.3	-28.08	-30.2	-26.0	16
-28.4	-28.6	-28.7	-28.9	-28.6	-28.2	-27.8	-27.7	-27.8	-27.8	-29.18	-31.1	-26.7	17
-23.3	-22.7	-22.6	-22.8	-23.0	-23.9	-25.0	-26.0	-26.5	-27.3	-26.09	-30.2	-22.5	18
-24.7	-24.2	-24.2	-24.2	-24.5	-24.9	-25.0	-26.1	-26.5	-28.2	-26.43	-29.2	-22.7	19
-27.1	-27.2	-27.5	-28.0	-28.2	-28.6	-29.0	-29.4	-30.0	-30.1	-28.15	-30.1	-26.3	20
-27.9	-27.9	-28.0	-28.1	-28.0	-28.5	-29.0	-29.7	-30.3	-30.5	-29.31	-30.6	-27.2	21
-24.5	-24.4	-24.5	-24.8	-24.9	-24.8	-24.6	-26.9	-27.0	-26.7	-27.21	-31.6	-23.6	22
-30.5	-30.1	-29.7	-29.8	-30.6	-31.0	-31.4	-31.9	-32.2	-32.4	-30.63	-32.4	-26.7	23
-30.1	-30.4	-30.6	-30.7	-31.3	-32.0	-32.0	-32.9	-33.1	-33.1	-31.83	-33.5	-28.5	24
-29.3	-29.3	-29.4	-29.8	-30.0	-29.5	-30.6	-31.1	-31.0	-31.4	-30.80	-33.5	-28.0	25
-30.2	-30.1	-30.2	-30.3	-30.5	-31.1	-31.0	-31.3	-31.5	-31.8	-30.90	-32.0	-28.5	26
-28.9	-28.9	-28.5	-28.5	-28.5	-29.1	-29.6	-29.8	-30.5	-31.2	-30.00	-32.1	-27.7	27
-28.2	-28.3	-28.4	-28.6	-28.5	-28.5	-28.5	-29.5	-29.3	-29.6	-29.38	-32.4	-26.6	28
-24.7	-24.8	-25.3	-25.5	-26.0	-26.5	-26.5	-27.1	-27.5	-27.8	-26.38	-29.6	-22.7	29
-24.0	-24.0	-23.8	-24.2	-24.2	-24.4	-24.7	-25.3	-26.0	-25.5	-25.50	-28.5	-22.0	30
-27.38	-27.45	-27.64	-27.76	-28.10	-28.42	-28.86	-29.27	-29.65	-29.94	-28.89	-32.09	-25.73	Mean
-27.38	-27.46	-27.65	-27.77	-28.11	-28.43	-28.87	-29.28	-29.67	-29.96				Corr.
1.51	1.43	1.24	1.12	0.78	0.46	0.02	- 0.39	- 0.78	- 1.07				D. f. m.

TEMPERATURE OF THE AIR. C°.

1895. MAY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-25.4	-25.4	-25.2	-25.4	-24.8	-24.1	-24.2	-23.2	-22.9	-21.7	-21.2	-21.0	-20.8	-20.2
2	-19.5	-19.1	-18.0	-20.0	-22.0	-22.7	-22.6	-21.5	-20.2	-19.6	-20.8	-21.0	-21.0	-20.3
3	-15.3	-14.9	-15.5	-15.6	-15.7	-15.9	-15.8	-15.6	-16.2	-17.0	-17.0	-16.5	-16.5	-16.2
4	-20.8	-20.3	-19.0	-18.5	-17.7	-18.2	-18.9	-18.8	-19.3	-19.6	-19.2	-18.7	-18.2	-18.5
5	-22.3	-22.5	-22.6	-22.5	-22.0	-21.4	-20.7	-20.1	-20.0	-19.6	-19.2	-18.8	-18.3	-18.3
6	-20.0	-20.0	-20.2	-20.2	-20.2	-20.1	-20.0	-19.6	-19.4	-19.4	-19.1	-18.1	-17.9	-17.7
7	-16.7	-16.3	-16.5	-16.4	-16.5	-16.5	-16.4	-15.4	-15.0	-15.6	-14.8	-13.5	-13.3	-13.1
8	-15.0	-15.8	-14.8	-13.5	-13.4	-13.0	-12.3	-12.7	-13.0	-13.0	-12.8	-11.5	-11.5	-11.4
9	-13.2	-14.5	-14.3	-14.2	-14.0	-14.0	-13.9	-13.4	-13.2	-12.9	-12.8	-12.6	-12.9	-11.3
10	-10.0	-9.9	-9.5	-9.2	-9.0	-9.8	-9.0	-7.8	-8.1	-8.3	-8.5	-8.7	-9.1	-8.9
11	-16.1	-16.3	-15.8	-14.9	-14.6	-14.4	-14.7	-14.3	-13.8	-11.3	-11.2	-10.9	-11.6	-11.1
12	-14.0	-14.0	-14.0	-13.7	-13.5	-13.9	-13.0	-11.9	-11.0	-10.9	-11.0	-11.3	-12.9	-11.5
13	-12.6	-12.1	-12.1	-12.0	-11.7	-11.5	-11.7	-11.3	-11.4	-10.7	-11.6	-10.4	-10.2	-10.1
14	-14.8	-13.0	-13.2	-14.0	-14.8	-12.8	-12.9	-12.9	-11.5	-11.5	-11.4	-11.2	-11.3	-11.6
15	-18.1	-18.3	-16.9	-15.3	-15.2	-15.0	-14.8	-14.5	-14.3	-14.4	-14.0	-14.3	-14.4	-13.7
16	-16.2	-16.3	-16.5	-16.7	-16.8	-16.9	-17.0	-17.0	-17.1	-16.1	-15.2	-14.6	-14.8	-14.9
17	-15.3	-15.5	-15.6	-14.7	-14.9	-14.0	-14.0	-14.5	-14.0	-13.0	-13.0	-12.9	-12.9	-13.0
18	-15.5	-14.8	-15.6	-15.5	-15.3	-16.2	-14.8	-14.4	-14.8	-14.7	-14.5	-14.1	-14.0	-14.1
19	-15.8	-15.7	-15.5	-15.6	-15.3	-15.1	-15.1	-15.0	-14.8	-14.6	-14.5	-14.2	-14.1	-14.5
20	-14.2	-14.3	-14.4	-14.9	-13.8	-13.2	-12.9	-10.9	-10.7	-10.9	-11.5	-10.7	-11.0	-10.2
21	-14.3	-14.6	-14.3	-14.4	-14.0	-13.9	-13.7	-13.4	-12.4	-11.8	-11.6	-11.4	-10.0	-8.8
22	-6.3	-5.7	-6.0	-5.5	-6.6	-6.5	-6.7	-6.3	-5.8	-5.3	-5.6	-5.3	-6.1	-6.6
23	-7.2	-7.4	-7.9	-8.0	-8.3	-8.4	-8.6	-8.9	-8.5	-8.9	-9.3	-9.5	-9.9	-9.9
24	-10.2	-10.7	-10.5	-10.5	-9.9	-9.8	-9.7	-9.5	-9.7	-10.3	-11.6	-10.2	-10.8	-9.7
25	-8.2	-8.1	-8.4	-8.3	-8.0	-8.3	-7.1	-5.1	-7.0	-8.6	-9.1	-9.3	-10.0	-9.5
26	-7.0	-6.7	-6.3	-6.2	-6.0	-5.3	-5.3	-6.0	-5.8	-6.1	-6.4	-6.2	-6.3	-6.8
27	-8.9	-9.1	-9.0	-8.7	-8.0	-7.8	-7.4	-6.8	-7.1	-6.6	-6.5	-6.7	-6.2	-6.3
28	-7.2	-7.0	-6.9	-6.8	-6.0	-6.5	-6.2	-5.6	-5.3	-5.2	-5.9	-5.5	-6.0	-5.5
29	-3.0	-3.0	-3.8	-4.8	-4.9	-5.3	-5.3	-4.9	-5.0	-4.8	-5.8	-5.1	-5.1	-4.2
30	-6.6	-6.6	-6.1	-5.5	-5.1	-5.5	-5.5	-4.8	-5.0	-4.5	-3.0	-4.5	-6.1	-5.0
31	-4.4	-4.1	-3.8	-4.0	-4.1	-4.8	-4.9	-4.4	-4.6	-4.0	-4.7	-4.9	-4.2	-4.1
Mean	-13.36	-13.29	-13.17	-13.08	-12.94	-12.93	-12.73	-12.27	-12.16	-11.96	-12.03	-11.73	-11.85	-11.52
Corr.	-13.07	-13.03	-12.94	-12.87	-12.76	-12.77	-12.60	-12.17	-12.08	-11.91	-12.00	-11.73	-11.88	-11.57
D. f. m.	-0.76	-0.72	-0.63	-0.56	-0.45	-0.46	-0.29	0.14	0.23	0.40	0.31	0.58	0.53	0.74



1895. MAY.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-19.6	-20.5	-20.0	-20.2	-20.0	-20.1	-19.3	-19.8	-19.3	-19.0	-21.80	-26.3	-19.0	1
-18.5	-17.1	-16.7	-16.3	-16.0	-15.5	-15.4	-15.3	-15.5	-15.5	-18.75	-22.7	-15.3	2
-16.3	-16.6	-17.3	-17.5	-18.3	-19.0	-19.0	-19.6	-20.0	-20.7	-17.00	-20.7	-14.6	3
-18.5	-19.0	-19.1	-19.5	-20.5	-20.7	-21.0	-21.3	-21.6	-22.0	-19.54	-22.0	-17.5	4
-18.0	-18.5	-18.5	-18.1	-18.2	-18.7	-19.1	-19.3	-19.3	-19.5	-19.81	-22.8	-17.4	5
-17.6	-17.4	-17.3	-17.1	-17.4	-17.2	-16.8	-16.4	-16.5	-16.5	-18.42	-20.4	-16.4	6
-13.4	-12.8	-12.9	-12.5	-12.0	-11.9	-11.9	-11.9	-13.5	-14.8	-14.32	-17.1	-11.9	7
-11.3	-12.8	-13.0	-13.2	-14.1	-14.7	-14.9	-13.8	-13.3	-13.2	-13.24	-15.8	-10.5	8
-11.0	-11.3	-11.5	-11.5	-11.0	-10.6	-10.5	-10.5	-10.3	-10.1	-12.31	-14.5	-10.1	9
- 9.3	- 9.7	-10.0	-10.9	-12.5	-13.7	-13.3	-13.9	-14.7	-15.2	-10.38	-15.2	- 7.8	10
-11.7	-11.5	-12.0	-11.7	-12.0	-12.3	-12.8	-13.2	-13.4	-14.8	-13.18	-16.3	-10.4	11
-10.9	-11.6	-12.0	-12.6	-13.0	-13.6	-12.8	-13.0	-12.8	-12.7	-12.57	-14.3	-10.5	12
-10.2	-10.3	-10.2	-10.2	-10.3	-10.4	-10.5	-11.7	-12.0	-13.2	-11.18	-13.2	- 9.3	13
-13.0	-14.5	-13.9	-14.4	-14.5	-15.6	-16.0	-16.9	-17.0	-17.5	-13.69	-17.5	-11.1	14
-13.5	-13.8	-14.3	-14.5	-14.4	-14.2	-14.1	-15.7	-16.0	-16.2	-15.00	-18.6	-12.4	15
-15.0	-15.3	-15.3	-15.0	-15.0	-13.9	-14.7	-15.4	-15.3	-16.1	-15.71	-17.1	-13.9	16
-14.0	-14.7	-14.7	-14.5	-14.8	-15.1	-16.1	-16.7	-15.6	-15.3	-14.53	-16.7	-11.0	17
-14.0	-14.0	-14.1	-14.3	-14.3	-14.4	-14.9	-15.3	-15.3	-15.6	-14.77	-16.6	-13.5	18
-14.6	-14.7	-14.3	-14.0	-13.9	-13.9	-13.5	-13.5	-14.0	-14.2	-14.60	-15.8	-13.5	19
- 9.2	-10.1	-10.5	-11.4	-12.0	-12.5	-12.9	-13.6	-13.8	-14.3	-12.25	-16.1	- 9.2	20
- 8.1	- 7.4	- 8.2	- 7.9	- 7.5	- 7.3	- 7.0	- 6.8	- 6.6	- 6.5	-10.50	-14.7	- 6.5	21
- 6.7	- 6.6	- 6.8	- 6.7	- 6.2	- 5.9	- 6.2	- 6.2	- 6.6	- 7.0	- 6.22	- 7.0	- 4.8	22
- 9.7	- 9.4	- 9.1	- 9.7	-10.0	-10.2	-10.6	-10.6	-10.3	-10.2	- 9.16	-10.7	- 7.0	23
- 9.8	- 9.9	- 9.7	- 9.7	-10.2	-10.8	-11.3	-10.6	- 9.4	- 9.1	-10.15	-12.1	- 9.1	24
- 9.1	- 8.2	- 7.5	- 7.5	- 7.3	- 7.5	- 7.5	- 7.4	- 7.4	- 7.3	- 7.99	-11.2	- 5.1	25
- 6.9	- 7.3	- 7.0	- 7.1	- 7.3	- 7.5	- 8.0	- 8.1	- 8.0	- 8.2	- 6.74	- 8.2	- 5.3	26
- 6.8	- 7.5	- 7.9	- 7.6	- 7.8	- 7.8	- 7.3	- 6.8	- 7.0	- 7.0	- 7.44	- 9.1	- 6.0	27
- 5.9	- 5.0	- 5.4	- 4.8	- 4.4	- 4.2	- 4.2	- 4.2	- 3.6	- 3.2	- 5.99	- 7.2	- 2.8	28
- 4.9	- 4.8	- 4.9	- 4.8	- 5.0	- 5.4	- 5.6	- 5.2	- 6.0	- 6.3	- 4.91	- 6.3	- 2.8	29
- 5.0	- 5.2	- 5.4	- 5.9	- 6.1	- 6.3	- 6.0	- 5.8	- 4.3	- 4.3	- 5.34	- 6.8	- 2.4	30
- 3.9	- 4.2	- 3.9	- 3.5	- 4.8	- 5.2	- 5.7	- 5.6	- 4.9	- 4.9	- 4.44	- 5.7	- 3.3	31
-11.50	-11.67	-11.72	-11.76	-11.93	-12.13	-12.22	-12.39	-12.36	-12.59	-12.31	-14.80	-10.01	Mean
-11.58	-11.77	-11.85	-11.92	-12.11	-12.34	-12.45	-12.65	-12.65	-12.90				Corr.
0.73	0.54	0.46	0.39	0.20	- 0.03	- 0.14	- 0.34	- 0.34	- 0.59				D. m. f.

TEMPERATURE OF THE AIR. C°.

1895. JUNE.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-5.6	-5.0	-4.7	-4.1	-3.6	-4.3	-4.4	-4.0	-3.9	-4.2	-4.6	-4.4	-4.2	-4.6
2	-6.8	-6.3	-7.0	-7.3	-6.6	-4.4	-3.9	-4.0	-3.2	-3.8	-3.3	-3.4	-3.8	-4.2
3	-2.7	-2.3	-2.4	-2.5	-2.4	-2.2	-2.1	-2.5	-2.5	-1.8	-1.6	-1.9	-1.6	-0.7
4	-6.1	-6.3	-7.7	-7.9	-7.9	-8.2	-8.0	-7.6	-6.7	-6.6	-6.5	-6.3	-6.6	-6.3
5	-6.3	-5.9	-5.6	-5.2	-5.0	-4.7	-4.3	-3.9	-3.8	-3.3	-3.3	-2.2	-1.9	-1.9
6	-3.1	-3.0	-3.0	-2.5	-2.1	-2.3	-2.5	-2.9	-3.0	-3.2	-3.0	-2.9	-3.2	-3.1
7	-7.9	-7.8	-7.7	-7.7	-7.6	-6.8	-6.0	-5.4	-5.4	-4.7	-4.7	-4.5	-4.9	-4.9
8	-9.3	-10.0	-10.4	-10.0	-9.9	-9.5	-9.2	-7.7	-7.4	-7.1	-6.9	-6.7	-6.3	-6.3
9	-8.7	-8.7	-8.3	-8.2	-8.0	-8.2	-7.7	-7.3	-7.4	-6.9	-6.5	-6.3	-6.3	-6.3
10	-4.6	-4.6	-4.5	-4.2	-3.7	-3.4	-3.0	-2.4	-2.5	-2.2	-2.0	-1.3	-1.3	-1.0
11	-0.1	-0.5	-0.4	-0.2	0.5	-0.5	-0.4	-0.3	0.0	0.2	0.3	0.2	0.1	0.0
12	0.0	-0.8	-1.2	-2.0	-2.5	-3.0	-2.1	-3.7	-3.1	-2.9	-3.5	-3.8	-3.5	-3.3
13	-4.7	-5.3	-5.2	-4.5	-4.3	-4.2	-4.1	-3.8	-3.7	-3.4	-3.0	-3.1	-3.2	-2.0
14	-3.2	-3.0	-3.0	-3.1	-2.8	-2.5	-2.1	-2.1	-1.8	-1.0	-1.0	-0.6	-0.7	-0.4
15	-0.7	-0.6	-0.5	-0.3	-0.7	-0.3	0.0	0.1	0.0	0.5	0.6	0.6	0.7	0.8
16	-0.2	0.0	0.0	0.1	0.1	-0.3	-0.4	-0.3	-0.5	-0.7	-1.0	-2.1	1.9	-1.8
17	-1.5	-2.2	-2.8	-3.0	-2.8	-2.4	-2.0	-1.6	-1.6	-1.6	-1.5	-1.3	-1.1	-0.9
18	-2.7	-2.1	-1.5	-0.8	-0.2	-0.2	0.0	0.3	-0.7	-1.9	-0.9	-0.4	-0.1	0.1
19	-0.2	0.0	0.2	0.1	-0.1	-0.3	-0.2	0.1	0.1	0.0	0.0	0.3	0.4	0.1
20	-0.8	-0.9	-0.5	-0.3	-0.3	-0.3	-0.4	-0.6	-0.7	-0.6	-0.6	-0.2	-0.9	-1.1
21	-0.1	-0.1	0.0	-0.2	-0.2	0.0	0.0	0.4	0.5	0.6	0.3	1.0	0.9	0.7
22	-4.0	-4.7	-4.3	-4.0	-3.8	-3.9	-3.2	-1.4	-0.9	0.0	-0.3	0.0	0.0	0.3
23	-0.8	-0.7	-0.3	-0.4	-1.2	-1.5	-0.7	-0.4	-0.1	0.3	0.4	-0.5	0.1	-0.9
24	-2.8	-2.8	-2.8	-2.8	-2.2	-1.6	-1.7	-2.0	-2.0	-1.8	-1.6	-1.7	-1.7	-1.7
25	-2.1	-2.2	-1.9	-2.1	-2.2	-2.4	-2.9	-2.0	-1.4	-1.1	-0.8	0.1	0.0	0.2
26	-1.1	-1.9	-1.5	-0.9	-0.3	-0.3	-0.3	-0.6	-0.3	0.2	0.2	0.5	0.4	0.5
27	-0.1	-0.7	-0.8	0.3	0.0	-0.5	-0.5	-0.5	-0.4	-0.3	-0.4	-0.4	-0.6	-0.8
28	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.4	0.5	0.5	0.4	0.4	0.6
29	0.4	0.4	0.4	0.4	-0.2	-0.3	0.0	0.3	0.1	0.3	0.4	-0.3	-0.1	0.0
30	0.4	0.4	0.2	0.1	0.4	0.4	0.6	0.6	0.7	0.8	0.8	0.9	0.6	0.7
Mean	-2.85	-2.92	-2.91	-2.77	-2.65	-2.60	-2.39	-2.17	-2.04	-1.86	-1.78	-1.68	-1.68	-1.61
Corr.	-2.76	-2.84	-2.84	-2.70	-2.59	-2.55	-2.35	-2.14	-2.02	-1.84	-1.77	-1.68	-1.69	-1.63
D. f. m.	-0.57	-0.65	-0.65	-0.51	-0.40	-0.36	-0.16	0.05	0.17	0.35	0.42	0.51	0.50	0.56

1895. JUNE.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-4.3	-4.3	-4.8	-4.8	-4.9	-5.2	-6.0	-6.8	-7.5	-7.3	-4.90	- 8.2	-3.2	1
-3.2	-2.6	-3.0	-4.0	-5.5	-4.7	-4.0	-3.7	-3.0	-2.8	-4.35	- 8.2	-2.8	2
-1.1	-0.3	-1.0	-0.8	-2.2	-3.8	-6.0	-5.6	-6.0	-6.0	-2.58	- 6.0	0.3	3
-6.7	-6.8	-6.3	-6.0	-5.7	-6.9	-7.7	-6.9	-6.8	-6.5	-6.88	- 8.2	-6.0	4
-1.7	-1.5	-1.5	-1.4	-2.4	-2.5	-3.0	-2.5	-2.9	-2.9	-3.33	- 6.5	-0.3	5
-3.8	-4.0	-4.2	-4.6	-5.3	-6.3	-6.4	-6.0	-6.9	-7.7	-3.96	- 7.7	-2.0	6
-4.7	-4.3	-5.2	-4.2	-5.0	-4.5	-4.0	-6.6	-8.0	-7.5	-5.83	- 8.0	-2.4	7
-6.7	-7.1	-7.4	-8.0	-8.4	-9.2	-8.8	-9.0	-9.7	-9.2	-8.34	-10.9	-6.3	8
-6.1	-5.9	-5.6	-5.5	-5.4	-5.4	-5.3	-4.8	-4.7	-4.6	-6.59	- 9.2	-4.6	9
-1.0	-0.5	-0.6	-0.6	-0.5	-0.5	-0.3	-0.1	-0.1	0.0	-1.87	- 5.3	0.0	10
0.5	0.2	0.6	0.7	0.6	0.6	0.4	0.2	0.1	0.3	0.13	- 0.7	1.3	11
-3.4	-3.7	-3.8	-3.8	-3.9	-4.2	-3.7	-4.1	-4.5	-4.7	-3.13	- 4.7	0.3	12
-2.4	-3.0	-3.0	-3.1	-3.2	-3.4	-3.0	-3.1	-3.0	-3.1	-3.53	- 5.3	-2.0	13
-0.4	-0.3	-0.3	-0.4	-0.5	-0.5	-0.7	-0.8	-0.9	-1.0	-1.38	- 3.7	-0.1	14
0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.09	- 1.3	0.8	15
-1.8	-2.1	-1.6	-1.4	-1.0	-0.4	-0.4	-0.5	-0.5	-0.5	-0.39	- 2.3	0.1	16
0.6	-0.4	-0.2	-1.5	-3.0	-2.8	-3.0	-3.3	-2.9	-2.4	-1.93	- 3.3	0.2	17
0.2	0.5	0.5	-0.2	-1.0	-0.6	-0.5	-0.7	-0.4	-0.4	-0.57	- 3.3	0.5	18
0.4	0.4	0.2	0.6	0.6	0.5	0.1	0.1	0.0	0.0	0.14	- 1.0	0.6	19
-1.5	-0.3	-1.0	-1.1	-0.7	-0.2	-0.3	-0.1	-0.1	-0.1	-0.57	- 1.5	-0.1	20
0.4	1.1	0.0	-0.4	-0.7	-0.6	-0.5	-1.6	-2.9	-3.1	-0.19	- 3.1	1.5	21
0.0	-0.5	-0.9	-1.0	-1.2	-0.8	-0.6	-1.6	-2.0	-1.6	-1.68	- 4.7	0.8	22
-1.5	-2.4	-2.5	-2.2	-2.0	-2.6	-2.9	-2.6	-2.6	-2.8	-1.29	- 2.9	0.5	23
-1.7	-1.4	-1.4	-1.4	-1.5	-1.8	-2.2	-2.3	-2.5	-2.5	-2.00	- 2.9	-0.9	24
0.2	0.0	-0.1	-0.2	-0.3	-0.5	-0.5	-0.8	-0.9	-0.9	-1.03	- 2.9	0.4	25
0.7	0.6	0.4	0.7	0.7	1.3	0.5	0.0	-0.1	-0.1	-0.03	- 2.3	1.3	26
-0.5	-0.6	0.0	0.0	0.0	-0.4	0.0	-0.3	-0.2	-0.1	-0.33	- 1.1	0.4	27
0.5	0.6	0.5	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.31	0.0	0.8	28
0.0	0.0	0.0	0.2	0.1	0.0	0.1	0.4	0.5	0.6	0.15	- 0.3	0.6	29
0.5	0.6	0.6	0.7	0.7	0.9	0.9	0.9	1.0	1.0	0.64	- 0.3	1.0	30
-1.64	-1.59	-1.71	-1.78	-2.04	-2.13	-2.24	-2.39	-2.57	-2.52	-2.19	- 4.19	-0.64	Mean
-1.66	-1.62	-1.75	-1.83	-2.10	-2.20	-2.31	-2.47	-2.66	-2.62				Corr.
0.53	0.57	0.44	0.36	0.09	-0.01	-0.12	-0.28	-0.47	-0.43				D. f. m.

TEMPERATURE OF THE AIR. C°.

1895. JULY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	0.7	0.5	0.3	0.3	0.3	0.2	0.3	0.3	0.4	0.3	0.5	0.8	0.9	0.7
2	0.9	-1.9	-1.8	-1.8	-2.0	-2.0	-2.0	-1.0	-1.5	-1.2	-1.2	-1.2	-0.9	-0.9
3	-1.5	-1.4	-1.4	-1.4	-1.3	-1.3	-1.2	-1.2	-0.8	-1.0	-0.9	-0.5	-0.1	0.1
4	-0.8	-1.5	-1.5	-1.5	-1.2	-0.9	-0.4	-0.2	-0.2	-0.2	0.0	0.2	0.5	0.2
5	-1.4	-1.9	-1.6	-2.1	-2.0	-1.8	-1.9	-1.1	-1.3	-1.2	-1.0	-1.4	-0.5	-0.9
6	-1.9	-2.0	-2.0	-2.0	-1.3	-0.9	-0.9	-0.9	-0.9	-0.8	-0.7	-0.1	0.1	0.3
7	0.2	0.2	0.3	0.5	0.2	0.6	0.5	-0.1	-0.1	-0.4	-0.6	-0.6	-0.4	0.0
8	-1.5	-1.3	-1.0	-0.9	-0.6	0.0	-0.8	-0.8	-0.5	-0.6	-0.4	-0.1	-0.5	-0.9
9	-0.1	-0.2	-0.5	-0.4	-0.1	-0.1	-0.1	-0.4	-0.4	-0.2	-0.6	-0.9	-1.3	-1.4
10	0.1	0.3	0.0	0.1	0.4	0.3	0.4	0.6	0.6	0.0	0.3	0.6	0.6	0.6
11	0.1	0.3	0.4	0.3	0.3	0.3	0.3	0.5	0.6	0.5	0.4	0.9	0.7	0.6
12	-1.1	-0.2	-0.2	-0.8	-0.6	-0.6	-0.5	0.6	0.6	0.9	0.9	0.9	0.9	0.9
13	-0.1	0.0	-0.1	1.0	1.2	1.7	1.4	1.4	1.5	1.7	1.7	1.7	1.2	1.4
14	0.8	0.6	0.5	0.7	0.8	0.9	0.7	0.3	0.4	0.4	0.7	0.3	0.0	-0.2
15	0.0	-0.6	-0.8	-0.8	-0.7	-0.8	-0.6	-0.7	-0.7	-0.7	-0.6	-0.5	-0.6	-0.6
16	-0.6	-0.4	0.0	0.5	0.7	0.9	1.0	1.1	0.9	0.7	0.6	0.5	0.5	0.7
17	-1.1	-0.6	-0.7	-1.0	-1.1	-1.0	-0.8	-0.2	0.7	0.7	0.8	1.1	1.0	1.2
18	0.1	0.2	0.0	-0.1	-0.3	0.0	0.2	0.6	0.1	0.1	0.2	0.3	0.3	0.3
19	-0.1	-0.7	-0.3	-0.1	-0.1	0.0	0.9	0.9	1.0	1.3	1.2	1.3	1.3	1.4
20	1.5	1.3	1.1	1.1	1.3	1.3	1.2	1.0	0.9	0.1	0.1	-0.2	-0.2	-0.2
21	0.1	0.4	0.5	0.6	0.7	0.4	0.7	0.7	0.7	0.5	0.4	0.6	0.5	0.3
22	-1.2	-1.3	-1.6	-1.1	-0.7	-0.2	0.5	0.2	-0.1	-0.2	0.0	0.7	0.9	1.2
23	-1.0	-1.2	-0.9	-0.1	0.3	0.6	0.7	0.8	1.1	1.1	1.2	1.0	1.3	1.2
24	0.3	0.2	0.0	0.0	-0.1	-0.5	-0.5	-0.8	-1.2	-0.9	-1.0	-0.9	-1.1	-1.3
25	-2.5	-2.3	-2.0	-2.0	-1.2	-0.7	-0.5	-0.2	0.0	0.1	0.1	0.3	0.5	0.6
26	-0.4	-0.8	-0.9	-0.8	-0.8	-1.2	-1.1	-1.1	-1.1	-0.4	-0.2	0.0	0.0	-0.1
27	0.3	0.0	-0.1	-0.9	-1.4	-1.8	-1.3	-1.0	-1.1	-0.9	-1.6	-1.5	-1.3	-1.0
28	-1.5	-1.6	-1.8	-2.0	-2.1	-2.0	-2.0	-2.1	-1.5	-1.4	-1.2	-0.6	-0.1	-0.1
29	-2.3	-2.9	-2.9	-2.9	-2.9	-3.0	-2.1	-2.2	-2.0	-1.9	-1.7	-1.4	-1.4	-1.5
30	0.8	0.9	0.8	0.6	0.7	0.5	0.5	0.4	-0.1	-0.5	-0.2	-0.5	-0.7	-1.0
31	-1.4	-1.6	-1.1	-1.0	-1.0	-1.0	-0.9	-0.8	-0.7	-0.6	0.0	0.3	0.5	0.5
Mean	-0.50	-0.63	-0.62	-0.58	-0.47	-0.39	-0.27	-0.17	-0.15	-0.15	-0.09	0.04	0.08	0.07
Corr.	-0.53	-0.66	-0.64	-0.60	-0.49	-0.41	-0.28	-0.18	-0.16	-0.16	-0.09	0.04	0.08	0.08
D. f. m.	-0.23	-0.41	-0.39	-0.35	-0.24	-0.16	-0.03	0.07	0.09	0.09	0.16	0.29	0.32	0.33

1895. JULY.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
0.8	0.6	0.5	0.2	0.1	-0.1	-1.0	-1.3	-1.1	-0.9	0.18	-1.3	1.0	1
-0.9	-0.8	-0.2	-0.9	-0.9	-1.2	-1.4	-1.6	-1.4	-1.5	-1.30	-2.3	-0.2	2
-0.1	-0.6	-0.9	-0.4	0.0	0.3	-1.1	-1.2	-0.3	-0.9	-0.80	-2.3	0.3	3
0.2	0.0	0.1	0.2	0.1	-0.1	-0.5	-0.4	-1.4	-1.2	-0.44	-1.6	0.5	4
-0.8	-0.9	-1.0	-1.4	-1.1	-1.6	-1.9	-1.8	-1.8	-1.9	-1.43	-2.4	-0.4	5
0.3	0.3	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.3	-0.41	-2.0	0.5	6
-0.6	0.3	0.0	0.1	-0.4	-0.8	-1.2	-2.0	-1.8	-1.6	-0.32	-2.4	0.8	7
-0.6	-1.3	-0.8	-0.2	0.5	0.6	0.2	0.2	0.0	-0.1	-0.48	-2.4	0.7	8
-1.5	-1.8	-1.0	-0.7	-1.0	-1.1	-1.1	-1.9	-1.3	-0.3	-0.77	-1.9	-0.1	9
0.5	0.2	-0.3	-0.5	-1.5	-0.9	-0.8	-0.4	-0.2	0.0	0.04	-1.5	0.8	10
0.8	1.7	1.8	1.2	0.6	0.3	0.0	0.1	-0.3	-0.2	0.51	-0.3	1.8	11
1.3	1.4	1.0	1.0	1.6	1.1	0.8	0.0	0.0	-0.1	0.45	-1.0	2.2	12
1.2	1.2	1.0	0.6	0.5	0.6	0.4	0.6	0.7	0.6	0.96	-0.1	1.8	13
-0.5	-0.8	-0.1	-0.4	-0.6	-0.5	-0.4	-0.3	0.0	0.5	0.16	-1.2	1.0	14
-1.0	-0.8	-0.9	-0.9	-0.9	-0.5	-1.2	-1.2	-0.9	-0.6	-0.69	-1.2	0.5	15
0.5	0.5	0.4	0.4	0.1	0.1	0.0	-0.1	-0.4	-0.3	0.35	-0.6	1.6	16
1.0	0.7	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.15	-1.1	1.2	17
0.1	0.6	0.6	0.3	0.3	0.4	0.3	0.3	0.0	0.0	0.20	-0.3	0.6	18
1.3	1.2	1.4	1.2	1.2	1.1	1.4	1.6	1.6	1.6	0.90	-0.7	1.6	19
-0.5	-0.5	-1.0	-0.9	-0.9	-1.0	-0.8	-1.2	-0.4	0.0	0.13	-1.2	1.6	20
0.1	0.1	0.1	0.1	-0.1	-0.1	-0.2	-0.4	-0.3	-0.7	0.24	-0.7	0.8	21
1.3	1.3	0.5	-0.1	-0.3	-0.3	-0.4	-0.4	-0.6	-0.9	-0.12	-1.7	1.3	22
1.8	1.2	1.1	0.9	0.9	0.7	0.6	0.3	0.4	0.4	0.60	-1.6	2.0	23
-0.5	-0.5	-0.6	-1.0	-1.1	-1.5	-2.1	-2.3	-2.9	-2.9	-0.97	-2.9	0.4	24
0.7	0.8	0.9	0.8	0.8	0.6	0.7	0.5	0.2	0.0	-0.16	-2.9	0.9	25
-0.1	-0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.3	-0.34	-1.3	0.3	26
-1.1	-1.2	-1.3	-1.1	-1.2	-1.4	-1.3	-1.4	-1.5	-1.6	-1.11	-1.8	0.3	27
0.1	0.3	0.4	0.3	0.0	-1.3	-1.3	-2.1	-2.2	-2.1	-1.16	-2.4	0.4	28
-1.5	-1.0	-0.7	-0.6	-0.3	-0.1	-0.1	0.0	0.2	0.5	-1.45	-3.4	0.5	29
-1.0	-1.3	-1.5	-1.4	-1.0	-1.3	-1.1	-1.2	-1.3	-1.1	-0.42	-1.5	0.9	30
0.6	0.3	0.9	0.2	0.1	0.1	0.0	-0.3	-0.7	-0.9	-0.35	-1.6	0.9	31
0.66	0.04	0.05	-0.06	-0.11	-0.23	-0.41	-0.55	-0.55	-0.50	-0.25	-1.60	0.84	Mean
0.07	0.05	0.06	-0.04	-0.09	-0.21	-0.39	-0.52	-0.52	-0.47				Corr.
0.32	0.30	0.31	0.21	0.16	0.04	-0.14	-0.27	-0.27	-0.22				D. f. m.

TEMPERATURE OF THE AIR. C°.

1895. AUGUST.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-0.4	-0.5	-0.6	-0.2	-0.1	-0.4	0.1	0.2	0.2	0.3	0.1	0.5	0.6	0.7
2	0.6	0.5	0.3	0.4	0.4	0.8	0.5	0.4	0.5	0.8	0.8	0.8	0.9	1.0
3	-1.9	-1.9	-1.7	-1.4	-1.3	-1.5	-1.7	-0.8	-0.3	0.0	0.3	0.7	1.3	1.0
4	-0.9	-0.6	-0.7	-1.2	-0.7	-1.6	-1.0	-0.3	0.0	0.1	0.5	0.4	0.7	1.0
5	-0.3	-0.1	0.0	0.0	-0.2	-0.6	-0.4	-0.5	-0.4	-0.5	-0.4	0.0	0.5	-0.2
6	-1.1	-1.3	-1.4	-1.3	-1.2	-0.7	-1.0	0.0	0.1	0.3	0.4	0.6	0.6	0.7
7	0.5	0.5	1.1	1.0	0.8	1.0	1.0	1.2	1.0	0.4	0.3	0.1	0.0	-0.2
8	-0.9	-1.0	-1.0	-1.0	-1.0	-0.5	-0.2	-0.1	0.0	0.1	0.2	0.0	0.0	0.0
9	-3.1	-2.2	-1.4	-1.0	-0.7	-0.7	-1.1	-0.8	-1.5	-1.1	-0.7	-0.3	-0.3	-0.4
10	-3.6	-3.6	-3.4	-3.4	-3.5	-3.5	-3.5	-3.4	-3.2	-3.2	-2.5	-2.2	-2.0	-1.8
11	-3.7	-4.7	-4.9	-5.3	-5.5	-5.0	-4.1	-4.2	-5.2	-5.0	-4.2	-3.7	-3.1	-2.3
12	-3.1	-3.0	-3.0	-2.9	-3.1	-3.3	-2.9	-2.9	-2.8	-2.3	-2.2	-1.9	-1.8	-1.7
13	-2.2	-2.1	-1.8	-2.0	-1.8	-1.6	-1.9	-1.7	-1.5	-1.4	-1.1	-1.4	-0.9	-0.8
14	-1.2	-3.0	-3.2	-3.3	-3.3	-3.9	-3.9	-3.8	-3.8	-3.8	-3.9	-3.6	-3.3	-3.3
15	-4.9	-5.0	-4.8	-4.8	-4.7	-5.3	-5.0	-4.4	-4.1	-3.8	-3.7	-3.1	-2.1	-3.2
16	-5.8	-5.8	-5.4	-5.1	-4.7	-4.2	-4.1	-3.0	-2.3	-0.9	-0.4	0.0	0.0	0.0
17	-1.0	-1.2	-1.5	-2.0	-2.3	-3.1	-2.8	-4.0	-4.1	-4.2	-5.3	-6.1	-4.9	-4.8
18	-2.6	-2.4	-2.5	-3.4	-4.2	-4.0	-3.6	-3.9	-3.7	-4.1	-4.0	-3.8	-3.1	-3.0
19	-1.2	-1.3	-1.1	-1.0	-0.9	-1.2	-1.2	-0.8	-1.0	-1.5	-1.3	-1.2	-1.8	-2.7
20	-3.6	-3.4	-3.5	-3.9	-4.3	-4.2	-4.0	-3.8	-3.0	-2.8	-1.9	-2.1	-2.3	-3.0
21	-3.1	-3.9	-3.9	-3.8	-3.6	-3.2	-2.8	-2.2	-2.1	-1.9	-1.8	-1.6	-1.5	-1.2
22	-3.4	-3.7	-4.0	-4.0	-4.0	-4.0	-4.2	-4.5	-5.0	-4.6	-4.3	-5.0	-4.4	-5.1
23	-6.4	-5.4	-5.2	-5.2	-5.4	-5.5	-5.4	-5.4	-6.0	-4.8	-4.4	-4.6	-4.2	-4.2
24	-5.5	-5.3	-4.7	-4.5	-4.0	-4.0	-3.1	-4.3	-4.0	-5.4	-5.7	-6.9	-6.3	-5.8
25	-2.6	-3.3	-3.1	-2.7	-2.2	-1.8	-1.6	-1.3	-2.8	-3.2	-3.8	-4.1	-4.3	-4.4
26	-7.4	-8.1	-8.0	-8.0	-7.9	-7.9	-7.9	-6.7	-6.8	-6.5	-6.3	-5.1	-4.2	-3.1
27	-2.3	-2.1	-2.0	-1.6	-1.4	-1.2	-1.0	-0.9	-0.8	-0.6	-0.8	-1.0	-0.9	-0.8
28	-4.4	-4.3	-4.9	-5.6	-4.3	-3.3	-3.7	-3.2	-2.5	-2.8	-2.8	-2.6	-2.1	-1.9
29	-7.5	-7.0	-6.0	-5.8	-5.8	-5.0	-5.0	-4.5	-4.0	-4.0	-3.5	-3.8	-4.0	-4.1
30	-3.8	-3.3	-2.9	-2.9	-3.0	-3.0	-3.5	-3.3	-3.1	-2.8	-2.9	-2.4	-1.9	-1.7
31	-2.7	-2.3	-2.3	-2.1	-2.3	-2.1	-2.3	-3.0	-4.4	-3.6	-3.0	-2.4	-2.5	-2.4
Mean	-2.94	-2.93	-2.82	-2.84	-2.78	-2.73	-2.62	-2.45	-2.46	-2.35	-2.20	-2.12	-1.85	-1.86
Corr.	-2.92	-2.91	-2.81	-2.83	-2.77	-2.72	-2.61	-2.44	-2.46	-2.35	-2.20	-2.12	-1.85	-1.86
D. f. m.	-0.44	-0.43	-0.33	-0.35	-0.29	-0.24	-0.13	0.04	0.02	0.13	0.28	0.36	0.63	0.62

1895. AUGUST.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
0.7	0.7	0.9	0.9	0.8	0.4	0.5	0.5	0.2	0.2	0.26	-0.9	0.9	1
0.8	0.8	0.7	0.5	0.0	-0.3	-1.5	-1.7	-2.1	-1.9	0.17	-2.1	1.0	2
1.0	0.7	0.6	0.3	0.3	0.1	0.0	-0.3	0.0	-0.6	-0.30	-2.3	1.3	3
0.8	0.5	0.4	0.2	0.0	-0.1	-0.2	-0.3	-0.4	-0.3	-0.15	-1.9	1.2	4
-0.3	-0.6	-1.0	-0.4	-0.1	0.2	0.1	0.1	-0.9	-1.0	-0.29	-1.5	0.5	5
1.8	0.7	-0.4	-0.8	-1.0	-1.3	-1.0	-0.5	0.3	0.5	-0.29	-1.5	1.9	6
-0.7	-0.4	-1.0	-0.7	-1.2	-1.0	-1.1	-1.0	-1.1	-0.9	-0.02	-1.8	1.1	7
-0.4	-0.2	-1.0	-1.6	-1.7	-1.7	-1.2	-1.1	-1.9	-2.8	-0.79	-2.8	0.5	8
-0.9	-1.4	-2.0	-2.2	-1.7	-2.3	-2.5	-2.8	-3.2	-3.5	-1.58	-3.5	-0.3	9
-1.9	-2.1	-1.8	-2.4	-3.3	-4.4	-4.1	-3.6	-4.0	-4.0	-3.10	-4.4	-0.3	10
-2.0	-1.5	-1.3	-1.2	-1.0	-2.0	-2.5	-2.7	-3.5	-3.8	-3.43	-5.5	-0.5	11
-1.2	-1.0	-1.0	-1.1	-1.0	-1.3	-1.5	-1.8	-1.8	-2.0	-2.11	-3.7	-1.0	12
-1.2	-2.3	-2.7	-3.3	-2.8	-2.4	-1.7	-1.9	-2.5	-2.6	-1.90	-3.5	-0.5	13
-3.6	-3.4	-3.5	-3.7	-3.6	-4.5	-4.9	-4.9	-5.3	-5.5	-3.83	-5.5	-1.7	14
-3.3	-3.5	-3.9	-4.2	-4.2	-4.8	-5.0	-5.5	-5.8	-5.7	-4.37	-5.8	-2.1	15
0.0	0.0	0.3	0.0	-0.1	-0.2	-0.5	-0.7	-0.6	-0.8	-1.85	-5.8	0.3	16
-4.0	-4.6	-4.3	-4.6	-4.5	-4.4	-3.7	-3.0	-2.8	-2.6	-3.58	-6.1	-0.8	17
-2.8	-2.2	-2.0	-1.9	-1.8	-1.7	-1.5	-1.6	-1.5	-1.5	-2.78	-6.1	-1.5	18
-3.5	-3.2	-3.3	-3.2	-3.8	-4.6	-4.3	-4.3	-4.3	-4.3	-2.33	-5.7	-0.8	19
-3.3	-4.2	-3.8	-3.3	-2.3	-2.2	-2.5	-2.9	-2.8	-2.9	-3.17	-4.5	-1.5	20
-1.1	-1.0	-1.2	-3.6	-4.0	-4.4	-3.9	-3.0	-3.0	-3.3	-2.71	-4.4	-1.0	21
-4.9	-4.8	-5.1	-5.2	-5.3	-5.3	-5.3	-5.4	-5.9	-6.1	-4.73	-6.1	-3.3	22
-4.2	-4.3	-3.8	-3.4	-3.1	-3.2	-3.1	-2.8	-2.3	-5.0	-4.47	-6.4	-2.2	23
-4.2	-3.3	-3.0	-2.6	-2.3	-3.0	-3.8	-4.0	-3.4	-2.9	-4.25	-7.7	-2.3	24
-5.0	-5.3	-5.5	-6.0	-6.3	-6.6	-6.8	-7.1	-7.2	-7.3	-4.35	-7.3	-1.3	25
-2.4	-3.4	-3.5	-3.4	-3.2	-3.0	-3.0	-2.9	-2.6	-2.4	-5.15	-8.1	-2.3	26
-1.3	-1.8	-2.0	-2.0	-2.0	-1.9	-2.8	-3.5	-4.9	-5.3	-1.87	-5.3	-0.6	27
-2.0	-2.5	-3.0	-3.5	-4.4	-5.1	-5.5	-6.1	-6.5	-6.8	-3.91	-6.8	-1.9	28
-4.2	-4.8	-5.2	-5.7	-6.3	-6.6	-6.7	-6.8	-5.9	-5.4	-5.32	-8.2	-3.5	29
-2.1	-1.8	-2.0	-2.1	-2.7	-2.8	-2.9	-2.8	-3.0	-2.8	-2.73	-5.4	-1.7	30
-2.4	-2.2	-2.2	-2.2	-1.6	-0.1	0.0	0.1	0.3	0.3	1.98	4.5	0.3	31
-1.86	-2.01	-2.15	-2.34	-2.46	-2.60	-2.67	-2.72	-2.85	-3.00	-2.48	-4.68	-0.71	Mean
-1.86	-2.01	-2.15	-2.35	-2.47	-2.61	-2.68	-2.74	-2.87	-3.02				Corr.
0.62	0.48	0.33	0.13	0.01	-0.13	-0.20	-0.26	-0.39	-0.54				D. f. m.

TEMPERATURE OF THE AIR. C°.

1895. SEPTEMBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	0.3	0.3	0.3	0.3	0.2	0.0	- 0.1	- 0.2	- 0.1	0.1	0.0	0.5	1.0	0.8
2	0.1	0.1	- 0.5	- 2.0	- 2.5	- 2.8	- 3.4	- 2.9	- 2.1	- 2.2	- 2.3	- 2.4	- 2.3	- 2.3
3	- 2.1	- 1.0	- 0.7	- 0.3	- 0.2	- 0.1	0.0	0.3	0.5	0.7	0.5	0.3	0.3	0.2
4	0.1	0.1	0.0	0.0	0.0	- 0.1	- 0.3	- 2.5	- 2.4	- 2.0	- 2.2	- 2.6	- 3.0	- 3.3
5	- 4.5	- 4.4	- 4.2	- 4.2	- 4.1	- 4.0	- 3.8	- 3.7	- 3.7	- 4.6	- 5.3	- 5.9	- 5.9	- 5.5
6	- 8.2	- 8.2	- 7.0	- 6.7	- 6.5	- 6.2	- 5.9	- 4.9	- 4.5	- 4.6	- 4.5	- 4.4	- 4.0	- 3.5
7	- 7.2	- 7.2	- 7.3	- 7.2	- 7.6	- 7.5	- 7.1	- 7.3	- 7.7	- 7.8	- 7.2	- 6.8	- 7.0	- 6.4
8	- 7.2	- 8.0	- 8.1	- 8.1	- 8.2	- 8.5	- 9.0	- 8.9	- 8.8	- 8.4	- 8.4	- 8.0	- 8.9	- 9.0
9	- 10.2	- 10.0	- 10.0	- 9.9	- 9.6	- 9.5	- 9.4	- 9.0	- 8.4	- 8.0	- 8.1	- 8.2	- 8.6	- 8.3
10	- 6.5	- 6.2	- 6.3	- 6.1	- 6.0	- 6.0	- 6.0	- 6.0	- 6.0	- 6.0	- 5.9	- 5.8	- 5.6	- 5.5
11	- 7.0	- 7.0	- 7.0	- 6.8	- 6.8	- 6.7	- 6.2	- 6.0	- 5.7	- 5.6	- 5.3	- 5.0	- 4.9	- 5.2
12	- 5.2	- 5.0	- 5.0	- 5.0	- 5.0	- 5.0	- 4.9	- 4.9	- 4.8	- 4.8	- 4.7	- 4.5	- 4.2	- 3.9
13	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.1	0.0	- 0.1	- 0.2	- 0.3
14	- 0.8	- 1.3	- 2.2	- 3.0	- 4.2	- 5.2	- 5.4	- 6.0	- 6.0	- 5.9	- 6.0	- 6.2	- 6.0	- 6.2
15	- 6.3	- 7.5	- 8.2	- 8.6	- 9.3	- 9.6	- 7.9	- 6.7	- 4.9	- 5.0	- 5.0	- 5.2	- 5.2	- 5.1
16	- 4.4	- 4.0	- 3.8	- 3.2	- 3.3	- 3.5	- 3.5	- 3.7	- 3.5	- 3.3	- 3.4	- 3.8	- 3.6	- 3.0
17	- 8.2	- 8.8	- 9.7	- 9.9	- 10.3	- 10.7	- 11.0	- 12.6	- 13.4	- 13.9	- 14.2	- 14.3	- 13.8	- 13.4
18	- 10.3	- 9.1	- 8.9	- 8.4	- 8.3	- 8.1	- 8.4	- 8.1	- 8.0	- 8.8	- 9.0	- 9.2	- 9.5	- 9.3
19	- 12.8	- 13.9	- 13.9	- 13.4	- 13.3	- 12.7	- 11.6	- 10.6	- 10.5	- 10.2	- 9.7	- 9.4	- 9.0	- 8.9
20	- 10.2	- 10.8	- 10.3	- 10.0	- 10.4	- 10.3	- 10.5	- 10.7	- 10.0	- 9.6	- 10.3	- 10.1	- 10.0	- 10.5
21	- 10.6	- 10.3	- 10.7	- 10.7	- 11.1	- 11.1	- 11.2	- 11.3	- 11.3	- 11.2	- 11.3	- 11.2	- 11.2	- 10.8
22	- 8.5	- 9.0	- 10.0	- 11.2	- 12.0	- 14.5	- 17.0	- 17.1	- 17.2	- 18.8	- 20.7	- 21.1	- 21.0	- 21.0
23	- 21.5	- 20.9	- 17.6	- 16.4	- 15.4	- 15.0	- 14.5	- 13.5	- 12.9	- 12.2	- 11.2	- 10.7	- 9.9	- 8.6
24	- 21.4	- 22.6	- 22.1	- 21.2	- 21.1	- 21.0	- 20.9	- 20.9	- 20.5	- 21.1	- 21.0	- 21.4	- 22.1	- 22.6
25	- 26.0	- 24.0	- 23.2	- 22.5	- 21.7	- 21.5	- 22.4	- 21.3	- 20.4	- 20.3	- 20.0	- 19.7	- 18.0	- 16.7
26	- 16.8	- 17.7	- 18.5	- 19.3	- 20.5	- 19.0	- 17.4	- 16.4	- 16.6	- 18.7	- 20.3	- 21.7	- 22.0	- 22.2
27	- 19.7	- 20.5	- 20.0	- 19.5	- 19.7	- 18.2	- 17.0	- 16.0	- 15.1	- 15.2	- 15.0	- 16.8	- 20.3	- 21.7
28	- 13.5	- 13.6	- 13.0	- 12.3	- 12.0	- 12.0	- 12.5	- 14.9	- 17.9	- 21.2	- 22.5	- 23.2	- 24.0	- 24.6
29	- 20.0	- 18.5	- 17.3	- 16.8	- 16.2	- 16.3	- 16.0	- 15.7	- 15.5	- 15.5	- 15.3	- 15.2	- 15.0	- 14.8
30	- 15.9	- 16.0	- 16.0	- 16.0	- 16.0	- 16.1	- 16.0	- 16.1	- 16.3	- 16.8	- 17.1	- 18.5	- 18.9	- 19.0
Mean	- 9.48	- 9.50	- 9.37	- 9.27	- 9.36	- 9.37	- 9.31	- 9.25	- 9.12	- 9.36	- 9.51	- 9.69	- 9.76	- 9.69
Corr.	- 9.83	- 9.81	- 9.65	- 9.52	- 9.58	- 9.56	- 9.47	- 9.38	- 9.21	- 9.42	- 9.54	- 9.69	- 9.73	- 9.63
D. f. m.	- 0.15	- 0.13	0.03	0.16	0.10	0.12	0.21	0.30	0.47	0.26	0.14	- 0.01	- 0.05	0.05



1895. SEPTEMBER.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
0·8	0·6	0·5	0·4	0·4	0·3	0·3	0·2	0·0	0·0	0·29	- 0·2	1·0	1
- 2·3	- 2·4	- 2·8	- 3·8	- 4·3	- 3·6	- 3·4	- 3·3	- 3·0	- 2·6	- 2·46	- 4·9	0·0	2
0·2	0·2	0·1	0·0	0·0	0·0	0·0	0·1	0·1	0·1	- 0·03	- 2·6	0·7	3
- 3·1	- 2·5	- 2·3	- 2·4	- 3·2	- 3·0	- 3·1	- 3·5	- 3·7	- 3·9	- 2·04	- 3·9	0·1	4
- 5·5	- 6·0	- 6·2	- 6·6	- 7·0	- 7·3	- 8·5	- 9·1	- 8·3	- 8·2	- 5·69	- 9·6	- 3·7	5
- 4·8	- 5·8	- 4·6	- 4·8	- 4·0	- 4·4	- 5·2	- 5·8	- 6·6	- 6·7	- 5·49	- 8·2	- 3·2	6
- 6·5	- 5·8	- 5·4	- 4·8	- 4·9	- 4·4	- 5·3	- 6·3	- 6·7	- 7·1	- 6·60	- 8·9	- 4·4	7
- 9·0	- 9·1	- 9·4	- 9·7	-10·1	-10·4	-10·7	-10·9	-10·8	-10·5	- 9·09	-10·9	- 7·2	8
- 8·0	- 7·6	- 7·5	- 7·2	- 7·3	- 7·2	- 7·2	- 6·9	- 6·6	- 6·4	- 8·30	-10·5	- 6·4	9
- 5·4	- 5·6	- 5·5	- 5·8	- 5·9	- 6·2	- 6·6	- 6·8	- 6·8	- 7·0	- 6·06	- 7·0	- 5·4	10
- 5·3	- 5·6	- 5·7	- 6·8	- 5·8	- 5·2	- 4·8	- 4·6	- 4·4	- 4·5	- 5·75	- 7·3	- 4·4	11
- 3·7	- 3·4	- 3·2	- 2·9	- 2·6	- 2·0	- 1·5	- 1·0	- 0·7	- 0·4	- 3·68	- 5·5	- 0·4	12
- 0·3	- 0·4	- 0·5	- 0·4	- 0·4	- 0·2	- 0·3	- 0·2	- 0·2	- 0·2	- 0·10	- 0·5	0·2	13
- 6·1	- 6·0	- 6·0	- 5·8	- 5·3	- 4·6	- 4·2	- 4·0	- 4·9	- 5·5	- 4·85	- 6·3	- 0·2	14
- 5·2	- 5·2	- 5·5	- 5·5	- 5·8	- 5·9	- 6·0	- 5·6	- 5·4	- 4·8	- 6·23	-10·5	- 4·8	15
- 3·3	- 4·0	- 4·5	- 4·3	- 5·0	- 5·6	- 6·5	- 7·2	- 7·6	- 8·0	- 4·42	- 8·0	- 3·0	16
-13·0	-13·0	-13·0	-13·0	-12·4	-12·6	-11·8	-11·3	-11·0	-10·6	-11·91	-14·7	- 8·0	17
- 9·2	- 9·1	- 9·1	- 9·9	-12·5	-12·3	-12·2	-13·6	-13·2	-12·9	- 9·89	-14·2	- 8·0	18
- 8·5	- 8·1	- 7·8	- 8·5	- 9·3	- 9·5	- 8·8	- 9·6	- 9·6	- 9·8	-10·39	-14·2	- 7·8	19
-11·0	-11·6	-11·2	-10·2	-10·1	-10·0	-10·3	-10·7	-10·7	-10·7	-10·43	-11·7	- 9·1	20
-10·6	-10·4	-10·4	-10·2	- 9·9	- 9·3	- 8·6	- 9·5	- 9·8	- 8·2	-10·45	-11·3	- 8·2	21
-20·7	-21·2	-21·5	-21·7	-21·9	-22·7	-22·0	-21·5	-21·2	-21·2	-18·11	-22·7	- 8·2	22
- 9·1	-11·5	-14·3	-17·6	-20·4	-19·3	-20·4	-21·7	-20·8	-20·9	-15·68	-22·5	- 8·6	23
-22·9	-23·1	-22·2	-22·2	-23·0	-21·5	-21·0	-22·3	-25·0	-25·6	-22·03	-25·6	-20·5	24
-16·5	-16·4	-16·1	-15·7	-15·3	-15·4	-15·9	-16·3	-16·7	-16·9	-19·12	-26·0	-15·2	25
-23·3	-23·9	-22·7	-22·7	-24·0	-24·1	-21·2	-18·7	-18·4	-19·2	-20·22	-24·1	-15·2	26
-22·5	-20·3	-20·1	-20·0	-18·3	-16·9	-16·0	-15·6	-14·5	-14·0	-18·04	-22·5	-15·0	27
-22·6	-22·7	-23·7	-24·9	-25·2	-25·6	-24·0	-22·3	-22·2	-21·2	-19·65	-25·6	-11·8	28
-15·0	-14·9	-15·2	-15·2	-15·3	-15·6	-15·7	-15·7	-15·7	-15·8	-15·93	-21·2	-14·5	29
-19·2	-19·1	-19·1	-19·1	-19·4	-19·5	-20·0	-20·5	-21·8	-22·4	-18·12	-22·4	-15·8	30
- 9·72	- 9·80	- 9·83	-10·04	-10·27	-10·13	-10·03	-10·14	-10·21	-10·17	- 9·68	-12·78	- 6·90	Mean
- 9·63	- 9·67	- 9·67	- 9·85	-10·05	- 9·88	- 9·75	- 9·83	- 9·86	- 9·79				Corr.
0·05	0·01	0·01	0·03	- 0·37	- 0·20	- 0·07	- 0·15	- 0·18	- 0·11				D. f. m.

TEMPERATURE OF THE AIR. C°.

1895. OCTOBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-23.1	-23.9	-24.8	-25.8	-25.1	-24.8	-25.1	-25.5	-25.9	-26.3	-27.0	-27.1	-26.0	-24.7
2	-18.0	-17.6	-18.1	-18.1	-18.5	-18.9	-19.2	-19.5	-19.2	-19.0	-19.0	-19.1	-19.0	-19.4
3	-17.3	-17.2	-17.0	-16.8	-16.2	-16.0	-15.8	-15.5	-15.7	-14.6	-14.1	-12.4	-11.5	-11.5
4	-21.6	-21.6	-20.8	-18.9	-16.8	-16.0	-15.3	-14.7	-13.8	-13.0	-13.1	-13.0	-12.8	-12.6
5	-16.5	-18.0	-18.3	-18.3	-18.0	-19.5	-17.2	-15.7	-14.0	-13.8	-13.6	-13.0	-12.2	-11.4
6	-10.9	-11.2	-11.3	-11.2	-11.2	-11.7	-11.9	-12.2	-12.4	-12.5	-12.8	-13.6	-13.8	-14.1
7	-13.7	-14.8	-16.5	-19.9	-20.8	-22.5	-20.9	-20.4	-21.0	-21.7	-21.5	-21.3	-23.4	-25.4
8	-22.1	-21.8	-20.0	-19.3	-18.0	-18.0	-17.4	-16.9	-16.4	-15.9	-15.4	-15.2	-14.6	-14.0
9	-13.2	-13.0	-13.1	-13.1	-12.9	-13.3	-16.0	-18.9	-21.3	-22.2	-23.0	-23.8	-23.9	-23.3
10	-18.4	-19.0	-18.6	-18.3	-18.0	-16.3	-16.0	-15.8	-15.6	-17.2	-18.1	-20.7	-19.3	-18.5
11	-12.5	-12.6	-12.5	-12.6	-12.6	-12.7	-13.3	-13.8	-14.0	-14.4	-14.9	-15.3	-15.0	-14.9
12	-17.5	-19.1	-20.3	-20.4	-21.5	-22.1	-21.7	-22.4	-19.9	-20.9	-23.0	-24.7	-20.0	-16.3
13	-14.2	-14.6	-14.0	-13.3	-13.1	-13.2	-14.0	-14.6	-15.0	-15.9	-17.0	-19.9	-18.7	-17.1
14	-17.3	-18.5	-19.0	-19.8	-19.5	-19.3	-19.0	-18.1	-18.4	-18.5	-19.6	-20.2	-20.0	-22.9
15	-16.1	-16.7	-17.5	-20.3	-20.9	-21.5	-22.3	-22.7	-23.0	-23.4	-23.6	-23.9	-24.0	-24.2
16	-19.1	-19.2	-20.6	-21.4	-21.2	-21.9	-22.0	-22.1	-22.1	-21.4	-22.0	-22.2	-23.0	-23.3
17	-17.1	-16.9	-16.7	-16.5	-16.2	-15.7	-15.0	-16.7	-15.9	-17.9	-17.8	-17.5	-17.3	-17.5
18	-16.7	-16.3	-16.1	-16.3	-17.2	-18.1	-18.8	-18.9	-18.8	-18.8	-19.0	-20.1	-20.3	-21.1
19	-24.6	-24.8	-24.6	-25.1	-25.3	-25.6	-25.9	-26.3	-26.4	-26.9	-26.5	-26.3	-26.3	-27.6
20	-28.0	-28.1	-28.9	-29.7	-29.6	-29.9	-30.0	-30.0	-30.0	-30.0	-30.1	-30.1	-30.0	-30.0
21	-29.6	-29.3	-29.2	-29.1	-29.0	-28.8	-28.7	-28.5	-28.3	-27.9	-27.5	-27.6	-27.2	-27.1
22	-27.9	-27.4	-26.5	-25.0	-23.8	-22.9	-22.4	-22.3	-21.9	-21.4	-21.5	-21.5	-21.0	-19.7
23	-21.2	-20.9	-22.6	-23.4	-24.3	-24.5	-24.1	-25.1	-25.2	-25.3	-25.2	-25.3	-24.9	-24.4
24	-28.0	-27.8	-27.3	-27.0	-27.3	-27.6	-27.8	-27.9	-27.7	-27.5	-27.2	-27.5	-27.4	-27.3
25	-27.2	-27.1	-27.3	-27.1	-27.3	-27.4	-28.0	-27.9	-28.0	-28.3	-28.0	-27.6	-27.9	-28.1
26	-28.5	-28.5	-28.8	-29.2	-29.2	-28.8	-28.8	-28.7	-28.8	-27.8	-27.7	-27.4	-27.5	-27.6
27	-28.0	-28.0	-27.9	-27.9	-28.0	-28.4	-28.4	-28.7	-29.0	-28.7	-29.1	-27.6	-26.5	-25.3
28	-24.3	-24.7	-25.2	-25.3	-26.0	-26.3	-26.3	-26.5	-26.9	-27.2	-27.1	-26.9	-26.7	-26.7
29	-16.1	-15.7	-15.3	-15.5	-16.2	-16.2	-15.8	-15.5	-16.0	-15.9	-15.9	-15.8	-16.0	-16.1
30	-20.7	-21.3	-21.5	-21.7	-22.5	-23.0	-23.5	-23.2	-23.8	-23.9	-24.0	-24.1	-24.3	-24.6
31	-27.0	-26.0	-26.6	-26.7	-26.0	-26.7	-26.3	-26.9	-26.7	-26.6	-26.8	-27.1	-26.8	-26.4
Mean	-20.53	-20.70	-20.87	-21.06	-21.04	-21.21	-21.19	-21.35	-21.33	-21.45	-21.65	-21.86	-21.53	-21.39
Corr.	-20.59	-20.76	-20.92	-21.11	-21.08	-21.24	-21.22	-21.37	-21.35	-21.46	-21.66	-21.86	-21.52	-21.38
D. f. m.	0.59	0.42	0.26	0.07	0.10	0.06	0.04	0.19	0.17	0.28	0.48	0.78	0.34	0.20

1895. OCTOBER.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-23.3	-22.3	-21.6	-21.3	-20.7	-20.2	-19.8	-19.6	-19.1	-18.9	-23.41	-27.1	-18.9	1
-19.7	-20.0	-19.9	-19.7	-19.5	-18.9	-18.9	-18.7	-18.1	-17.7	-18.90	-20.0	-17.1	2
-11.9	-14.8	-15.3	-17.5	-18.5	-18.9	-19.0	-20.5	-20.9	-21.4	-16.26	-21.4	-11.5	3
-12.2	-12.6	-12.8	-13.2	-13.8	-14.2	-15.3	-16.1	-16.1	-16.6	-15.29	-21.6	-12.2	4
-11.4	-11.5	-12.0	-12.6	-12.9	-12.5	-12.5	-12.5	-11.8	-10.6	-14.16	-19.5	-10.6	5
-14.1	-13.8	-14.5	-15.2	-14.8	-14.1	-13.3	-13.0	-13.0	-13.2	-12.91	-15.4	-10.5	6
-25.6	-25.7	-26.2	-26.0	-25.9	-25.4	-25.3	-25.8	-23.8	-23.0	-22.35	-26.5	-13.2	7
-14.6	-13.8	-13.9	-13.7	-13.5	-13.6	-13.3	-13.1	-13.2	-13.4	-15.88	-23.0	-12.9	8
-22.0	-22.1	-21.2	-19.6	-19.3	-18.7	-18.5	-17.1	-17.6	-18.0	-18.55	-24.0	-12.9	9
-17.7	-16.4	-15.8	-15.1	-14.9	-14.3	-13.9	-13.4	-13.2	-12.9	-16.56	-20.7	-12.9	10
-14.4	-14.2	-14.0	-13.8	-14.0	-14.3	-14.6	-15.8	-14.9	-16.0	-14.05	-16.7	-12.5	11
-15.7	-15.6	-15.9	-16.1	-16.2	-16.3	-16.6	-15.7	-15.0	-14.5	-18.64	-24.7	-14.5	12
-16.8	-16.4	-16.2	-16.1	-17.0	-17.8	-17.4	-17.3	-17.1	-17.5	-16.01	-19.9	-12.9	13
-22.9	-22.8	-22.2	-21.9	-22.1	-22.5	-21.0	-19.6	-19.2	-17.0	-20.05	-23.0	-17.0	14
-24.7	-25.2	-25.5	-25.7	-23.5	-21.1	-19.3	-17.9	-17.5	-18.5	-21.63	-25.7	-16.0	15
-23.5	-23.6	-23.7	-22.0	-20.4	-19.6	-19.3	-18.9	-18.0	-17.5	-21.17	-23.7	-17.5	16
-18.8	-19.6	-19.7	-19.5	-17.5	-17.1	-17.0	-17.2	-16.9	-16.9	-17.29	-19.9	-15.0	17
-20.9	-20.6	-21.1	-21.3	-21.8	-22.5	-22.0	-22.6	-22.5	-23.9	-19.82	-23.9	-16.1	18
-28.9	-29.1	-29.3	-29.6	-30.1	-30.2	-30.0	-29.6	-28.6	-28.5	-27.34	-30.2	-23.9	19
-30.0	-30.0	-30.0	-30.0	-30.1	-30.2	-30.2	-30.1	-29.9	-29.8	-29.74	-30.2	-27.6	20
-26.9	-26.3	-26.3	-26.6	-26.5	-27.9	-23.5	-29.0	-28.1	-27.9	-27.99	-29.8	-25.6	21
-19.1	-19.6	-19.9	-20.3	-20.9	-21.3	-21.5	-22.0	-22.2	-22.1	-22.25	-27.9	-19.0	22
-24.9	-25.4	-25.9	-26.1	-26.3	-26.5	-26.9	-27.1	-27.1	-27.2	-24.99	-27.2	-20.7	23
-27.4	-27.7	-28.2	-28.1	-28.1	-28.2	-28.0	-27.8	-27.7	-27.7	-27.68	-28.2	-26.2	24
-28.8	-28.5	-28.5	-28.3	-28.4	-28.7	-23.9	-28.7	-28.5	-28.5	-28.04	-28.9	-26.8	25
-27.6	-27.1	-27.3	-27.1	-27.0	-26.7	-27.1	-27.7	-27.9	-27.9	-27.95	-29.4	-26.5	26
-24.5	-24.3	-24.7	-24.0	-23.5	-23.3	-23.1	-23.5	-24.0	-24.2	-26.29	-29.1	-22.9	27
-25.2	-23.7	-23.5	-23.3	-22.2	-21.9	-21.3	-20.0	-18.3	-17.2	-24.28	-27.2	-17.2	28
-16.5	-17.1	-17.6	-18.0	-18.3	-18.3	-19.0	-18.8	-19.3	-20.1	-16.88	-20.1	-15.2	29
-24.0	-24.4	-24.2	-23.7	-23.2	-24.4	-25.4	-25.9	-26.0	-26.9	-23.76	-26.9	-20.1	30
-25.9	-26.3	-26.2	-26.4	-26.3	-26.4	-25.2	-25.9	-26.1	-26.7	-26.42	-28.2	-24.9	31
-21.29	-21.31	-21.39	-21.35	-21.20	-21.16	-21.04	-21.00	-20.70	-20.72	-21.18	-24.51	-17.77	Mean
-21.27	-21.29	-21.36	-21.32	-21.16	-21.11	-20.99	-20.94	-20.64	-20.65				Corr.
- 0.09	- 0.11	- 0.18	- 0.14	0.02	0.07	0.19	0.24	0.54	0.53				D. f. m.

TEMPERATURE OF THE AIR. C°.

1895. NOVEMBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-27.0	-26.7	-28.0	-28.1	-29.0	-28.9	-27.8	-30.4	-30.9	-31.1	-31.2	-31.7	-31.6	-31.5
2	-29.0	-29.2	-29.3	-29.3	-29.6	-29.7	-29.7	-30.0	-30.7	-31.1	-30.9	-30.5	-31.1	-31.6
3	-33.4	-33.0	-32.2	-32.9	-32.5	-30.3	-28.2	-26.8	-24.9	-23.5	-22.6	-25.6	-28.0	-28.7
4	-21.1	-21.1	-21.2	-21.4	-21.2	-23.4	-25.1	-26.4	-27.1	-27.0	-27.0	-26.4	-27.3	-28.3
5	-23.8	-24.0	-24.0	-24.3	-25.4	-27.7	-28.5	-29.8	-30.5	-31.3	-31.5	-32.3	-32.7	-32.9
6	-29.9	-28.8	-28.6	-27.6	-26.8	-26.3	-25.8	-24.9	-25.7	-25.9	-26.3	-26.4	-27.1	-27.9
7	-26.0	-25.7	-24.5	-24.4	-23.4	-23.4	-23.7	-23.8	-23.9	-24.2	-24.4	-25.1	-25.3	-25.9
8	-24.1	-24.7	-25.1	-25.1	-24.5	-25.6	-24.8	-24.4	-25.2	-26.2	-26.3	-28.8	-29.7	-30.5
9	-35.3	-35.3	-34.9	-34.7	-35.7	-35.0	-35.3	-35.9	-36.7	-38.6	-38.4	-38.5	-37.8	-39.4
10	-38.6	-39.0	-38.7	-38.8	-38.5	-38.8	-39.0	-38.7	-38.5	-38.5	-38.5	-38.2	-37.6	-37.1
11	-27.0	-26.0	-25.3	-24.3	-23.2	-22.5	-21.7	-21.1	-20.5	-20.3	-19.6	-19.7	-19.0	-18.1
12	-23.7	-23.9	-23.2	-21.7	-20.0	-19.5	-21.3	-23.1	-25.1	-26.9	-28.0	-28.2	-27.9	-27.3
13	-12.8	-13.5	-16.8	-17.5	-19.0	-19.4	-20.0	-20.4	-21.0	-21.2	-22.5	-23.6	-24.2	-24.9
14	-28.2	-28.3	-28.8	-29.1	-29.3	-29.2	-29.2	-29.1	-29.3	-29.8	-30.0	-30.5	-30.5	-30.6
15	-30.0	-29.8	-29.7	-29.6	-29.7	-29.8	-30.0	-30.3	-30.9	-31.3	-31.4	-30.3	-31.6	-30.1
16	-24.9	-24.8	-24.5	-24.7	-24.4	-24.0	-23.8	-24.1	-24.9	-25.4	-25.4	-25.3	-25.3	-25.6
17	-31.2	-31.4	-31.8	-32.5	-33.0	-33.4	-33.8	-33.7	-33.9	-34.3	-34.0	-33.8	-33.7	-33.6
18	-34.8	-34.7	-34.9	-35.2	-34.4	-34.7	-35.1	-35.9	-36.2	-37.1	-37.1	-37.1	-37.0	-36.9
19	-38.0	-38.1	-38.3	-37.3	-35.9	-33.9	-33.5	-33.1	-32.8	-33.3	-33.7	-34.2	-35.1	-35.9
20	-39.4	-39.5	-39.9	-39.5	-39.4	-39.3	-39.1	-38.9	-38.9	-38.8	-38.8	-39.0	-39.2	-39.2
21	-41.3	-41.3	-41.5	-42.0	-42.0	-42.1	-41.9	-42.2	-41.9	-41.2	-40.1	-39.8	-39.7	-39.8
22	-38.1	-38.6	-39.4	-40.0	-40.5	-40.7	-41.8	-42.3	-42.4	-42.9	-43.3	-43.2	-43.3	-43.5
23	-43.1	-43.0	-42.9	-42.9	-42.3	-42.1	-41.7	-41.6	-40.6	-40.4	-40.7	-40.9	-40.7	-40.2
24	-34.5	-35.5	-35.5	-36.2	-36.0	-35.7	-35.9	-36.8	-37.3	-37.8	-36.9	-35.5	-35.8	-36.0
25	-33.2	-33.0	-32.3	-33.4	-34.3	-35.6	-35.5	-35.7	-36.0	-36.1	-36.0	-35.9	-35.7	-35.4
26	-35.6	-35.8	-36.0	-36.2	-36.5	-36.3	-35.6	-35.6	-35.2	-34.7	-34.7	-34.7	-34.3	-34.6
27	-22.3	-22.1	-20.9	-20.2	-19.9	-19.6	-19.1	-19.0	-18.8	-18.7	-18.5	-18.2	-18.8	-19.1
28	-21.0	-21.0	-21.0	-20.9	-20.9	-20.9	-20.9	-20.9	-21.0	-21.1	-21.3	-21.1	-21.4	-21.9
29	-23.8	-23.7	-23.6	-23.5	-23.4	-23.5	-24.1	-25.0	-24.4	-25.4	-27.0	-26.3	-27.3	-28.5
30	-33.5	-33.0	-32.7	-33.2	-33.4	-33.9	-34.0	-35.9	-35.6	-36.3	-37.1	-37.7	-37.9	-37.5
Mean	-30.15	-30.15	-30.16	-30.22	-30.14	-30.17	-30.20	-30.53	-30.69	-31.01	-31.10	-31.28	-31.55	-31.75
Corr.	-30.31	-30.30	-30.29	-30.34	-30.24	-30.26	-30.27	-30.59	-30.73	-31.04	-31.11	-31.28	-31.54	-31.72
D. f. m.	0.56	0.57	0.58	0.53	0.63	0.61	0.60	0.28	0.14	0.17	0.24	0.41	0.67	0.85

1895. NOVEMBER.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-31.8	-31.8	-31.7	-31.3	-30.9	-30.6	-29.5	-28.7	-28.9	-28.9	-29.92	-32.1	-26.7	1
-31.5	-31.5	-30.9	-30.4	-30.0	-30.0	-30.7	-30.8	-31.0	-31.6	-30.42	-31.6	-28.9	2
-29.2	-29.8	-29.9	-29.7	-27.3	-25.2	-23.7	-21.9	-21.8	-21.3	-27.60	-33.8	-21.3	3
-28.0	-28.9	-28.4	-28.0	-28.7	-28.8	-26.4	-25.2	-23.2	-23.6	-25.55	-29.4	-20.9	4
-32.8	-33.1	-33.0	-32.9	-32.5	-32.3	-31.7	-31.3	-30.6	-30.0	-29.95	-33.1	-23.6	5
-28.6	-28.7	-28.6	-28.5	-28.6	-28.1	-27.6	-27.4	-27.8	-27.0	-27.43	-30.0	-24.5	6
-26.0	-25.9	-25.4	-25.1	-24.9	-24.4	-24.0	-23.3	-23.1	-23.3	-24.55	-27.0	-22.9	7
-32.0	-33.2	-33.0	-34.2	-35.0	-35.2	-35.3	-35.4	-35.7	-35.5	-29.98	-35.9	-23.3	8
-39.0	-38.8	-38.9	-38.8	-39.2	-39.0	-38.7	-38.8	-38.7	-38.6	-37.50	-39.5	-34.5	9
-35.9	-35.0	-34.5	-34.1	-33.5	-32.1	-31.0	-29.5	-29.0	-27.7	-35.83	-39.3	-27.7	10
-17.8	-16.0	-15.0	-14.5	-13.5	-13.0	-12.6	-15.8	-19.5	-23.0	-19.54	-27.7	-11.9	11
-27.1	-26.5	-26.0	-24.9	-22.5	-21.8	-20.0	-18.1	-16.6	-14.4	-23.24	-28.2	-14.4	12
-25.3	-25.8	-26.1	-26.3	-26.5	-26.9	-27.5	-27.7	-28.0	-28.1	-22.71	-28.1	-14.4	13
-30.5	-30.3	-30.0	-29.9	-30.8	-31.2	-30.9	-30.5	-30.3	-30.1	-29.85	-31.2	-28.1	14
-30.0	-28.1	-28.0	-28.9	-28.9	-25.6	-25.2	-26.2	-25.4	-24.7	-28.98	-31.6	-24.7	15
-26.0	-26.9	-27.3	-27.7	-28.2	-29.8	-30.1	-30.4	-30.5	-30.9	-26.45	-30.9	-23.2	16
-33.4	-33.1	-33.4	-33.5	-33.8	-34.4	-34.6	-34.4	-34.0	-33.9	-33.45	-34.6	-30.9	17
-36.7	-36.1	-36.7	-37.1	-37.6	-37.6	-37.8	-38.0	-37.9	-38.1	-36.45	-38.1	-34.4	18
-36.3	-36.9	-37.0	-37.3	-37.8	-38.2	-38.5	-38.8	-39.2	-39.3	-36.35	-39.3	-32.1	19
-38.9	-39.2	-39.4	-39.4	-39.3	-38.9	-39.3	-40.0	-40.3	-41.0	-39.36	-41.0	-38.8	20
-39.4	-39.2	-39.2	-39.2	-38.6	-38.2	-38.0	-38.1	-37.9	-37.6	-40.09	-42.4	-37.6	21
-43.3	-43.3	-43.4	-43.8	-43.2	-43.8	-43.9	-43.8	-43.6	-43.2	-42.30	-44.1	-37.6	22
-39.9	-39.5	-39.4	-39.2	-39.0	-38.6	-37.5	-34.7	-34.2	-34.3	-39.98	-44.1	-34.0	23
-36.0	-35.3	-34.9	-34.6	-35.2	-35.7	-35.1	-34.5	-34.0	-33.5	-35.59	-37.8	-33.5	24
-34.3	-32.9	-32.5	-32.1	-33.0	-34.1	-34.9	-34.8	-34.6	-35.1	-34.43	-36.3	-32.3	25
-33.5	-32.2	-31.8	-31.0	-29.9	-28.4	-27.0	-25.2	-24.6	-23.7	-32.63	-36.7	-23.7	26
-19.4	-19.8	-20.0	-20.2	-20.5	-20.4	-20.6	-20.6	-20.7	-21.0	-19.93	-23.7	-18.0	27
-21.7	-23.2	-24.0	-24.8	-24.9	-25.0	-25.0	-24.9	-24.3	-24.0	-22.38	-25.0	-20.9	28
-29.5	-30.7	-31.5	-32.2	-32.7	-32.9	-33.0	-33.4	-34.0	-33.9	-28.05	-34.0	-23.4	29
-37.4	-37.6	-37.4	-37.3	-37.3	-37.1	-37.2	-37.1	-37.1	-37.2	-36.02	-38.0	-32.4	30
-31.71	-31.64	-31.58	-31.56	-31.46	-31.24	-30.91	-30.64	-30.55	-30.48	-30.87	-34.15	-26.69	Mean
-31.67	-31.58	-31.51	-31.47	-31.36	-31.12	-30.78	-30.49	-30.39	-30.30				Corr.
- 0.80	- 0.71	- 0.64	- 0.60	- 0.49	- 0.25	0.09	0.38	0.48	0.57				D. f. m.

TEMPERATURE OF THE AIR. C°.

1895. DECEMBER.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-36.9	-36.8	-36.9	-37.3	-37.3	-36.9	-36.7	-36.3	-36.1	-37.0	-37.6	-38.2	-37.6	-37.1
2	-35.3	-35.5	-36.2	-36.6	-36.8	-36.7	-36.5	-36.6	-37.8	-38.9	-40.0	-41.7	-41.5	-41.3
3	-37.4	-36.9	-36.7	-36.0	-36.0	-35.7	-35.4	-35.0	-34.0	-32.9	-31.9	-31.0	-31.1	-31.7
4	-32.3	-33.1	-33.5	-33.3	-33.1	-33.3	-33.4	-33.5	-33.5	-33.1	-33.0	-32.9	-33.1	-33.2
5	-33.6	-33.6	-33.7	-33.3	-33.9	-34.3	-35.0	-35.2	-34.4	-33.2	-33.3	-33.8	-33.2	-32.7
6	-33.6	-34.2	-34.2	-34.9	-34.7	-34.2	-34.5	-34.8	-34.8	-34.8	-34.9	-35.2	-35.2	-35.3
7	-35.3	-36.4	-36.7	-37.0	-37.3	-37.3	-37.7	-38.5	-38.8	-39.2	-38.9	-39.1	-39.4	-39.5
8	-40.0	-40.0	-40.3	-40.3	-40.0	-40.0	-40.2	-40.2	-40.0	-39.9	-39.8	-39.7	-38.9	-37.9
9	-39.0	-39.1	-39.2	-39.6	-39.4	-38.8	-38.6	-38.3	-38.4	-39.0	-38.9	-38.4	-38.4	-38.4
10	-32.0	-31.7	-30.9	-30.0	-30.3	-30.4	-30.4	-30.3	-30.1	-30.0	-29.8	-29.8	-30.3	-29.3
11	-26.2	-26.7	-26.4	-26.8	-26.5	-26.0	-25.6	-25.6	-25.8	-25.5	-25.3	-25.3	-25.5	-26.1
12	-23.7	-24.5	-24.8	-25.3	-26.0	-25.9	-25.5	-24.2	-23.6	-23.1	-23.0	-22.8	-22.4	-22.3
13	-22.0	-21.7	-22.0	-22.5	-22.1	-22.7	-23.9	-26.5	-26.9	-26.7	-28.2	-26.1	-23.3	-22.2
14	-23.5	-24.8	-25.2	-25.3	-25.8	-24.8	-24.9	-26.5	-28.1	-29.7	-30.0	-32.3	-32.9	-31.9
15	-26.0	-26.2	-26.9	-26.8	-27.0	-27.2	-27.1	-26.9	-26.4	-26.1	-25.6	-25.1	-24.6	-24.4
16	-23.3	-23.0	-23.2	-23.2	-24.1	-24.4	-25.2	-26.9	-28.0	-29.0	-30.2	-31.0	-31.7	-32.8
17	-36.1	-36.3	-36.4	-36.1	-36.1	-36.0	-36.1	-36.3	-36.3	-36.3	-36.7	-36.8	-36.4	-36.1
18	-37.4	-37.4	-37.3	-37.4	-37.7	-38.1	-37.9	-37.5	-37.6	-36.9	-36.4	-36.2	-35.9	-35.7
19	-36.5	-35.9	-35.8	-35.7	-35.4	-35.2	-35.9	-36.1	-36.0	-35.9	-35.6	-35.6	-35.7	-35.8
20	-32.3	-32.5	-33.0	-33.6	-33.8	-33.4	-33.5	-33.7	-33.8	-33.3	-34.2	-33.3	-33.0	-32.4
21	-26.8	-27.0	-27.2	-28.5	-30.4	-30.1	-29.9	-30.9	-31.2	-32.0	-32.8	-32.1	-32.2	-30.1
22	-33.3	-33.8	-34.1	-34.7	-35.1	-35.0	-35.4	-35.7	-35.5	-35.2	-35.8	-36.0	-36.0	-36.4
23	-30.4	-29.7	-28.1	-27.2	-27.0	-26.6	-26.3	-26.1	-25.6	-24.9	-24.5	-24.1	-24.0	-23.7
24	-31.0	-31.1	-31.6	-31.9	-31.7	-31.6	-31.5	-31.6	-31.5	-31.4	-31.1	-31.0	-31.0	-31.8
25	-35.1	-34.2	-34.8	-35.2	-35.0	-34.6	-34.6	-34.8	-35.1	-35.1	-35.5	-35.5	-36.0	-36.4
26	-33.2	-33.9	-30.0	-29.0	-27.8	-26.2	-25.9	-24.6	-24.0	-23.7	-24.0	-22.8	-22.5	-22.3
27	-24.9	-24.5	-24.2	-24.0	-23.6	-23.2	-22.6	-21.5	-20.5	-19.4	-19.3	-19.4	-19.7	-20.2
28	-23.0	-22.6	-22.6	-23.1	-23.6	-25.0	-26.0	-29.0	-32.0	-34.6	-35.7	-36.8	-37.1	-37.2
29	-39.6	-39.0	-39.2	-39.5	-39.9	-40.1	-40.0	-40.5	-38.8	-37.3	-36.2	-35.5	-35.8	-36.3
30	-36.0	-35.0	-34.8	-34.3	-35.0	-35.0	-37.2	-38.4	-38.5	-38.6	-39.0	-39.4	-39.6	-40.0
31	-42.5	-42.6	-42.9	-42.9	-42.3	-42.3	-43.2	-43.7	-44.1	-44.7	-44.6	-44.4	-44.9	-44.9
Mean	-32.20	-32.25	-32.22	-32.30	-32.41	-32.29	-32.47	-32.76	-32.81	-32.82	-32.96	-32.95	-32.87	-32.75
Corr.	-32.31	-32.35	-32.31	-32.38	-32.48	-32.35	-32.52	-32.80	-32.84	-32.84	-32.97	-32.95	-32.86	-32.73
D. f. m.	0.29	0.25	0.29	0.22	0.12	0.25	0.08	0.20	0.24	0.24	0.33	0.35	0.26	0.13

1895. DECEMBER.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-36.9	-36.7	-35.9	-35.9	-36.0	-36.7	-36.0	-36.0	-35.8	-35.7	-36.68	-38.2	-35.7	1
-41.2	-41.1	-41.4	-41.6	-41.4	-41.2	-41.0	-39.4	-38.7	-38.4	-39.03	-42.2	-35.3	2
-32.5	-32.9	-32.9	-32.9	-32.6	-32.1	-32.1	-31.9	-31.9	-32.2	-33.57	-38.4	-30.8	3
-33.2	-33.4	-33.5	-33.6	-33.5	-33.6	-33.2	-33.1	-33.8	-33.9	-33.30	-33.9	-32.3	4
-32.0	-31.4	-31.7	-32.2	-32.6	-32.9	-32.7	-33.1	-33.6	-33.2	-33.28	-35.5	-31.3	5
-34.2	-31.6	-33.1	-33.6	-33.5	-33.6	-31.7	-34.1	-34.5	-35.0	-34.30	-35.5	-31.5	6
-39.6	-39.5	-39.6	-39.7	-39.8	-39.9	-39.9	-39.9	-39.9	-39.9	-38.70	-39.9	-35.0	7
-37.9	-37.4	-37.4	-37.8	-38.1	-38.6	-39.2	-39.1	-39.0	-39.1	-39.20	-40.5	-37.3	8
-38.1	-37.6	-37.4	-36.9	-36.0	-34.9	-34.3	-33.9	-33.1	-32.8	-37.44	-39.9	-32.8	9
-28.1	-27.9	-27.3	-27.1	-27.4	-27.9	-27.8	-27.8	-28.0	-27.3	-29.25	-32.8	-27.1	10
-26.0	-25.8	-25.4	-25.6	-25.8	-25.8	-25.6	-25.7	-24.3	-23.8	-25.71	-27.3	-23.6	11
-22.2	-22.1	-22.6	-22.9	-22.5	-23.0	-23.2	-22.3	-23.0	-22.3	-23.47	-26.7	-21.8	12
-21.2	-20.9	-20.9	-20.5	-20.4	-20.5	-20.8	-21.0	-21.4	-22.0	-22.77	-28.6	-20.1	13
-32.2	-32.3	-31.0	-29.8	-29.4	-28.6	-28.0	-27.2	-26.5	-26.6	-28.22	-33.2	-22.0	14
-24.3	-24.3	-24.4	-24.6	-24.1	-23.7	-23.3	-23.1	-23.4	-23.3	-25.20	-28.2	-22.5	15
-33.3	-33.8	-34.1	-34.3	-34.6	-34.8	-35.2	-35.4	-35.9	-36.2	-30.15	-36.2	-22.5	16
-36.3	-37.2	-36.9	-37.1	-37.2	-36.8	-36.3	-36.3	-36.5	-37.0	-36.48	-37.5	-36.0	17
-35.6	-35.6	-36.5	-37.4	-38.5	-38.2	-38.1	-38.0	-37.9	-36.9	-37.17	-38.8	-35.3	18
-35.0	-33.1	-33.2	-35.2	-35.0	-33.2	-32.7	-31.9	-31.5	-32.1	-34.75	-36.9	-31.5	19
-31.7	-29.6	-29.3	-27.4	-26.8	-26.1	-26.6	-26.8	-26.8	-26.9	-30.99	-34.2	-26.1	20
-30.8	-30.6	-30.4	-30.2	-30.8	-31.4	-31.6	-32.0	-31.5	-32.3	-30.53	-32.4	-26.8	21
-36.0	-36.1	-36.1	-36.0	-35.8	-35.5	-33.8	-32.8	-31.2	-30.8	-34.84	-36.7	-30.8	22
-23.4	-23.1	-23.2	-24.7	-26.6	-28.9	-28.9	-28.9	-29.7	-30.0	-26.48	-30.8	-22.8	23
-32.2	-32.9	-32.6	-32.2	-33.2	-33.6	-33.8	-34.5	-35.1	-35.4	-32.30	-35.4	-30.0	24
-36.4	-36.4	-36.2	-34.8	-34.8	-34.5	-34.3	-34.2	-34.0	-33.0	-35.02	-36.6	-33.0	25
-21.5	-20.7	-20.3	-23.4	-24.8	-25.5	-25.4	-25.5	-25.5	-25.5	-25.33	-34.5	-20.3	26
-20.1	-21.1	-21.2	-21.5	-22.2	-23.4	-23.3	-24.1	-23.5	-23.2	-22.11	-25.5	-19.1	27
-37.7	-38.0	-38.0	-38.0	-38.2	-38.3	-38.2	-38.2	-38.3	-39.0	-32.93	-39.0	-22.6	28
-36.5	-37.2	-37.4	-38.0	-38.4	-38.8	-39.2	-40.0	-38.5	-37.3	-38.29	-40.5	-35.5	29
-41.0	-41.7	-41.7	-41.9	-41.5	-41.3	-41.7	-42.2	-42.3	-42.4	-39.10	-42.4	-32.8	30
-44.9	-45.0	-45.1	-45.5	-45.4	-45.4	-45.3	-44.9	-44.8	-44.5	-44.20	-45.6	-43.2	31
-32.65	-32.48	-32.47	-32.65	-32.80	-32.86	-32.78	-32.69	-32.58	-32.52	-32.60	-35.61	-29.27	Mean
-32.62	-32.44	-32.42	-32.59	-32.73	-32.78	-32.69	-32.59	-32.47	-32.40				Corr.
-0.02	0.16	0.18	0.01	-0.13	-0.18	-0.09	0.01	0.13	0.20				D. f. m.

TEMPERATURE OF THE AIR. C°.

1896. JANUARY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-44.9	-44.6	-44.4	-44.1	-44.2	-44.1	-44.0	-43.1	-42.4	-41.9	-41.8	-41.6	-41.6	-41.6
2	-43.8	-43.3	-42.9	-42.3	-42.4	-40.9	-40.9	-40.5	-40.8	-41.0	-40.9	-40.4	-40.9	-41.4
3	-42.8	-43.0	-42.2	-42.1	-42.3	-42.7	-42.6	-42.4	-42.9	-43.2	-43.4	-43.3	-44.0	-42.8
4	-42.1	-41.9	-42.3	-42.3	-42.1	-41.4	-41.5	-41.2	-40.7	-40.7	-41.8	-42.7	-42.6	-43.6
5	-43.9	-43.9	-43.7	-43.6	-44.0	-43.9	-44.3	-44.5	-45.0	-45.4	-45.7	-45.7	-46.1	-46.6
6	-46.1	-46.1	-46.1	-45.8	-45.8	-46.1	-46.0	-46.0	-46.2	-46.4	-46.2	-45.9	-45.9	-45.9
7	-44.9	-44.9	-44.9	-44.9	-44.9	-44.9	-44.9	-44.9	-45.2	-45.5	-45.6	-45.6	-45.5	-45.5
8	-45.7	-45.5	-45.4	-45.2	-45.3	-45.4	-45.4	-45.3	-45.3	-45.3	-45.1	-44.9	-45.0	-45.1
9	-41.8	-41.7	-41.8	-41.9	-41.4	-40.9	-42.1	-43.3	-43.4	-43.6	-43.8	-44.1	-44.5	-44.9
10	-44.8	-44.4	-44.4	-44.4	-44.4	-44.4	-44.6	-44.8	-44.8	-44.9	-45.0	-45.2	-45.3	-45.4
11	-43.4	-42.9	-43.3	-43.7	-43.8	-43.9	-44.3	-44.9	-45.4	-45.9	-46.4	-46.9	-47.3	-47.7
12	-45.9	-45.9	-46.2	-46.6	-46.6	-46.7	-45.8	-44.8	-44.4	-44.1	-44.1	-44.1	-44.0	-44.0
13	-44.8	-44.2	-44.5	-44.8	-45.2	-45.7	-45.8	-45.9	-46.2	-46.4	-46.5	-46.6	-46.2	-45.9
14	-42.2	-42.2	-42.5	-43.0	-43.5	-44.2	-44.8	-45.1	-45.3	-45.9	-46.0	-46.3	-46.2	-46.9
15	-49.2	-49.2	-49.2	-49.3	-49.3	-49.2	-49.1	-49.0	-49.0	-49.2	-49.0	-48.8	-49.3	-49.8
16	-48.8	-49.4	-49.2	-48.9	-48.8	-48.6	-48.4	-48.1	-47.9	-47.7	-46.8	-45.4	-44.8	-44.2
17	-36.6	-35.8	-35.3	-34.9	-34.5	-34.1	-34.0	-33.8	-33.2	-32.6	-33.8	-34.8	-36.0	-37.8
18	-42.3	-42.1	-42.0	-41.7	-38.9	-36.2	-34.9	-34.3	-33.4	-32.6	-31.3	-30.3	-29.0	-27.5
19	-18.0	-17.9	-17.4	-17.1	-17.1	-17.4	-17.9	-18.3	-19.0	-19.6	-20.1	-20.4	-20.9	-21.2
20	-24.8	-24.5	-24.2	-23.6	-24.9	-25.9	-24.3	-23.8	-23.3	-23.2	-23.2	-23.1	-23.9	-24.4
21	-21.9	-22.7	-24.1	-25.8	-26.5	-27.2	-28.0	-27.7	-28.0	-28.9	-30.0	-31.2	-31.9	-32.7
22	-27.9	-27.8	-27.2	-27.0	-26.8	-26.6	-26.8	-26.6	-26.8	-28.7	-27.7	-28.4	-28.1	-27.9
23	-30.8	-30.0	-30.3	-28.4	-29.1	-31.0	-31.5	-32.1	-32.9	-32.8	-33.2	-32.2	-33.1	-34.1
24	-32.8	-32.8	-32.9	-33.1	-33.3	-33.9	-34.0	-34.1	-34.2	-34.3	-33.8	-33.9	-33.9	-33.5
25	-24.3	-25.1	-26.0	-27.1	-28.2	-29.2	-29.4	-30.9	-31.8	-31.3	-31.0	-32.0	-32.2	-33.0
26	-35.1	-35.0	-34.8	-34.9	-34.9	-35.0	-35.2	-35.2	-35.5	-35.9	-36.9	-36.7	-36.3	-36.2
27	-36.7	-37.0	-37.3	-37.5	-37.9	-37.9	-38.2	-38.4	-38.5	-38.9	-39.0	-39.7	-40.0	-40.2
28	-31.5	-28.8	-27.0	-26.0	-25.3	-24.5	-24.2	-24.1	-24.0	-24.9	-25.3	-26.6	-27.2	-29.8
29	-36.0	-35.8	-35.8	-35.8	-35.8	-35.8	-35.5	-35.3	-34.9	-32.9	-30.9	-29.1	-29.0	-28.8
30	-21.9	-21.3	-21.2	-20.9	-20.9	-20.8	-20.6	-19.5	-19.0	-18.1	-17.5	-16.8	-16.9	-16.8
31	-20.0	-20.2	-20.7	-21.0	-21.4	-21.8	-22.0	-22.9	-23.1	-23.1	-23.2	-23.1	-23.8	-24.6
Mean	-37.28	-37.06	-37.07	-37.02	-37.08	-37.11	-37.14	-37.12	-37.18	-37.25	-37.26	-37.28	-37.46	-37.74
Corr.	-37.04	-36.84	-36.87	-36.84	-36.82	-36.98	-37.03	-37.03	-37.11	-37.21	-37.24	-37.28	-37.48	-37.78
D. f. m.	0.29	0.49	0.46	0.49	0.51	0.35	0.30	0.30	0.22	0.12	0.09	0.05	-0.15	-0.45



1896. JANUARY.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-42.0	-42.4	-42.7	-42.9	-43.5	-43.7	-43.6	-43.7	-43.6	-43.9	-43.18	-44.9	-41.6	1
-40.3	-41.9	-42.1	-42.2	-42.1	-42.1	-42.2	-42.4	-42.3	-42.3	-41.72	-43.9	-40.4	2
-43.1	-43.4	-43.7	-43.7	-43.9	-43.8	-43.6	-43.3	-43.2	-42.8	-43.09	-44.3	-42.1	3
-43.9	-43.9	-43.8	-43.9	-43.8	-43.8	-43.4	-43.4	-43.5	-43.8	-42.67	-43.9	-40.7	4
-46.3	-46.7	-46.2	-46.4	-46.2	-46.3	-46.0	-45.9	-45.8	-46.0	-45.34	-46.7	-43.6	5
-45.9	-45.9	-45.4	-44.9	-44.8	-44.8	-44.9	-44.9	-44.9	-44.9	-45.66	-46.4	-44.8	6
-45.6	-45.8	-45.4	-45.1	-45.6	-46.1	-46.4	-46.6	-46.2	-45.9	-45.45	-46.6	-44.9	7
-44.4	-43.7	-43.3	-42.9	-42.4	-41.8	-41.8	-41.8	-41.8	-41.9	-44.20	-45.9	-41.8	8
-45.0	-45.0	-45.0	-45.0	-45.1	-45.2	-45.4	-45.5	-45.3	-45.1	-43.78	-45.8	-40.9	9
-45.3	-45.2	-45.0	-44.9	-44.8	-44.8	-44.6	-44.3	-44.1	-43.9	-44.74	-45.7	-43.9	10
-47.7	-47.7	-47.4	-47.2	-47.2	-47.1	-47.1	-47.1	-46.5	-45.9	-45.87	-44.9	-42.9	11
-44.2	-44.4	-44.6	-44.9	-44.5	-44.1	-44.8	-45.6	-45.4	-45.1	-45.08	-47.2	-44.0	12
-45.4	-44.9	-44.6	-44.4	-43.9	-43.4	-43.0	-42.6	-42.0	-42.0	-44.79	-46.9	-42.0	13
-46.9	-46.9	-47.3	-47.8	-47.8	-47.9	-48.4	-48.9	-49.0	-49.1	-46.00	-49.1	-42.0	14
-49.8	-49.9	-49.8	-49.7	-49.6	-49.5	-49.2	-49.0	-48.8	-48.4	-49.26	-50.1	-48.4	15
-43.6	-43.1	-42.9	-42.6	-42.7	-42.7	-42.0	-40.9	-39.2	-37.7	-45.19	-49.7	-37.7	16
-38.5	-39.6	-40.0	-40.8	-41.0	-41.1	-41.9	-42.3	-42.2	-42.7	-37.39	-42.7	-32.3	17
-26.9	-26.1	-24.0	-22.7	-21.8	-20.9	-20.2	-19.6	-19.6	-18.7	-29.88	-42.7	-18.7	18
-22.0	-22.9	-22.5	-23.2	-24.1	-24.9	-25.7	-26.9	-25.9	-25.3	-21.07	-26.9	-16.7	19
-24.0	-23.1	-22.8	-22.1	-21.2	-20.6	-20.5	-20.9	-21.5	-21.6	-23.24	-26.9	-20.0	20
-33.5	-33.8	-33.8	-32.9	-32.0	-31.3	-31.0	-29.8	-29.0	-28.4	-27.59	-33.8	-21.6	21
-28.2	-30.5	-30.9	-29.6	-30.8	-32.1	-32.6	-31.9	-30.8	-30.3	-28.83	-33.2	-25.8	22
-34.3	-34.4	-34.5	-34.3	-34.8	-33.9	-33.4	-33.4	-33.3	-33.4	-32.55	-34.8	-27.6	23
-34.0	-30.4	-29.0	-27.3	-25.4	-23.9	-22.9	-22.8	-22.9	-23.2	-30.51	-34.3	-22.2	24
-33.6	-33.7	-33.4	-33.1	-33.1	-33.3	-34.2	-34.9	-35.0	-35.0	-31.28	-35.0	-22.2	25
-35.9	-35.7	-35.6	-35.7	-35.9	-36.0	-36.0	-36.1	-36.2	-36.7	-35.73	-36.9	-34.0	26
-40.4	-41.0	-41.0	-41.4	-41.1	-41.1	-39.0	-37.1	-34.8	-32.8	-38.62	-41.6	-32.8	27
-32.0	-33.9	-34.1	-34.2	-35.0	-35.6	-35.4	-35.7	-35.9	-35.9	-29.87	-35.9	-23.7	28
-28.5	-27.2	-27.0	-26.9	-25.5	-24.4	-23.8	-23.4	-23.0	-22.6	-30.15	-36.7	-22.6	29
-16.5	-16.5	-16.7	-16.7	-17.0	-17.1	-17.2	-18.0	-18.7	-19.1	-18.57	-22.6	-16.5	30
-25.8	-26.4	-25.8	-24.9	-27.0	-28.4	-28.2	-28.0	-27.9	-28.0	-24.22	-28.4	-19.1	31
-37.85	-37.94	-37.72	-37.56	-37.54	-37.47	-37.37	-37.31	-37.04	-36.85	-37.33	-40.46	-33.47	Mean
-37.92	-38.03	-37.83	-37.69	-37.70	-37.65	-37.57	-37.53	-37.28	-37.12				Corr.
-0.59	-0.70	-0.50	-0.36	-0.37	-0.32	-0.24	-0.20	0.05	0.21				D. f. m.

TEMPERATURE OF THE AIR. C°.

1896. FEBRUARY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-28.1	-28.1	-28.2	-25.5	-23.5	-23.0	-23.7	-25.4	-25.7	-25.4	-24.5	-24.7	-24.3	-24.1
2	-20.0	-21.2	-22.0	-23.1	-23.2	-23.3	-24.6	-24.8	-25.0	-24.9	-24.8	-25.7	-25.5	-25.2
3	-28.1	-28.9	-29.3	-29.8	-30.1	-30.4	-31.0	-31.3	-32.2	-33.0	-33.3	-33.5	-33.9	-34.4
4	-39.2	-40.0	-40.3	-40.9	-41.0	-41.1	-41.1	-41.3	-42.2	-40.9	-40.9	-40.9	-41.0	-41.3
5	-41.8	-41.3	-41.3	-41.5	-41.5	-41.6	-41.7	-40.8	-40.5	-40.0	-40.0	-39.9	-39.7	-39.8
6	-38.9	-38.5	-38.7	-38.6	-38.8	-39.0	-39.2	-38.9	-39.0	-39.1	-39.7	-40.0	-40.0	-39.9
7	-41.5	-41.3	-41.7	-41.8	-41.0	-40.7	-40.6	-40.9	-40.5	-40.2	-40.5	-40.7	-40.8	-40.9
8	-41.5	-41.1	-41.8	-41.0	-41.0	-41.6	-41.7	-41.9	-42.2	-42.2	-42.3	-42.9	-43.0	-42.7
9	-43.3	-43.4	-43.4	-43.7	-43.8	-43.3	-42.8	-41.8	-41.0	-40.9	-40.1	-39.5	-39.0	-38.4
10	-34.3	-34.1	-33.8	-33.0	-32.3	-32.0	-32.1	-31.7	-31.0	-30.8	-30.0	-29.1	-28.5	-27.9
11	-34.3	-35.0	-35.1	-35.2	-35.3	-35.3	-35.4	-36.1	-38.5	-41.3	-42.2	-43.4	-43.5	-43.7
12	-44.9	-44.9	-44.9	-45.0	-45.0	-44.9	-44.9	-44.9	-44.0	-44.9	-44.9	-44.9	-44.9	-44.9
13	-44.3	-44.6	-44.8	-45.0	-45.3	-45.5	-45.8	-45.9	-46.3	-46.8	-46.8	-46.9	-46.7	-47.0
14	-45.9	-45.6	-45.3	-44.9	-44.7	-43.4	-42.5	-40.9	-39.5	-38.9	-37.9	-36.8	-35.7	-34.8
15	-32.0	-32.0	-31.8	-31.7	-31.6	-30.9	-31.0	-32.0	-34.5	-36.7	-38.5	-40.3	-41.0	-41.7
16	-42.8	-43.0	-43.0	-43.0	-43.0	-42.9	-42.0	-41.4	-41.2	-41.0	-41.0	-40.9	-41.5	-41.4
17	-43.3	-43.3	-43.3	-43.3	-43.5	-43.7	-44.1	-44.1	-44.4	-44.4	-44.5	-44.6	-44.7	-44.8
18	-38.3	-37.7	-37.3	-36.9	-36.9	-36.9	-36.3	-35.7	-35.7	-35.7	-36.4	-37.9	-39.2	-42.5
19	-44.2	-44.4	-43.6	-42.9	-42.9	-42.9	-42.8	-42.7	-42.4	-42.2	-42.0	-41.9	-41.6	-41.4
20	-40.7	-40.8	-40.9	-40.7	-40.9	-40.9	-41.6	-42.6	-42.8	-42.8	-43.0	-42.9	-42.0	-41.8
21	-34.0	-32.0	-30.9	-28.7	-27.9	-26.5	-26.2	-25.6	-24.0	-22.6	-21.3	-20.1	-18.4	-17.1
22	- 6.8	- 8.4	-10.0	-11.6	-10.0	- 8.5	- 8.7	- 9.5	-18.0	-17.3	-19.2	-21.3	-22.2	-23.0
23	-23.8	-23.3	-22.9	-23.2	-23.5	-23.3	-23.4	-23.3	-23.3	-23.4	-23.4	-23.1	-22.9	-23.0
24	-28.3	-28.3	-28.7	-29.6	-30.0	-31.8	-31.0	-28.9	-27.8	-26.4	-26.5	-25.9	-25.6	-25.3
25	-13.8	-11.1	-10.5	-15.0	-17.0	-18.1	-19.0	-25.0	-26.0	-25.6	-24.1	-22.9	-22.5	-21.9
26	-23.0	-22.0	-20.9	-20.1	-19.1	-18.3	-17.4	-16.3	-20.0	-24.3	-26.0	-27.9	-28.4	-28.9
27	-33.1	-32.9	-32.3	-31.9	-31.5	-31.8	-32.0	-32.3	-32.3	-32.7	-32.0	-32.7	-33.0	-32.9
28	-35.1	-35.3	-35.4	-35.9	-36.0	-36.8	-36.5	-37.0	-36.2	-36.7	-36.9	-37.7	-38.0	-37.9
29	-33.5	-33.0	-32.5	-32.3	-32.1	-32.8	-33.5	-34.0	-34.0	-34.4	-34.7	-34.6	-34.5	-34.3
Mean	-34.44	-34.31	-34.30	-34.34	-34.22	-34.18	-34.23	-34.35	-34.83	-35.00	-35.08	-35.30	-35.24	-35.27
Corr.	-34.53	-34.40	-34.38	-34.41	-34.28	-34.23	-34.27	-34.38	-34.86	-35.02	-35.09	-35.30	-35.23	-35.25
D. f. m.	0.20	0.33	0.35	0.32	0.45	0.50	0.46	0.35	0.13	0.29	0.36	0.53	0.50	0.48

1896. FEBRUARY.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-23.5	-23.8	-23.9	-23.2	-23.3	-22.3	-21.3	-20.7	-20.2	-20.0	-24.02	-29.1	-20.0	1
-25.0	-26.1	-26.9	-27.1	-26.9	-26.8	-26.6	-26.4	-27.2	-27.5	-24.99	-27.5	-20.0	2
-35.0	-35.6	-35.9	-36.2	-36.5	-36.9	-37.2	-37.8	-38.3	-39.0	-33.65	-39.0	-27.5	3
-41.3	-41.6	-41.5	-41.4	-41.3	-41.9	-42.0	-42.0	-42.0	-42.0	-41.21	-42.2	-39.2	4
-39.7	-39.1	-39.1	-39.1	-39.0	-39.6	-39.6	-39.6	-39.9	-39.2	-40.22	-42.0	-39.0	5
-39.7	-39.1	-39.1	-39.0	-39.2	-39.9	-40.3	-40.6	-41.2	-41.5	-39.50	-41.5	-38.5	6
-40.7	-40.9	-40.9	-40.6	-40.7	-40.9	-41.2	-41.4	-41.5	-41.5	-40.98	-42.0	-40.2	7
-42.8	-42.6	-42.8	-42.1	-42.6	-42.7	-43.0	-43.2	-43.0	-43.0	-42.28	-43.2	-41.0	8
-38.0	-37.7	-37.2	-36.8	-36.0	-35.9	-35.3	-34.9	-34.5	-34.4	-39.38	-44.0	-34.4	9
-27.4	-26.7	-26.9	-26.8	-27.5	-28.3	-30.2	-31.5	-32.4	-32.8	-30.46	-34.4	-26.0	10
-43.9	-43.9	-43.8	-43.8	-44.1	-44.3	-44.6	-44.8	-44.9	-44.9	-40.72	-44.9	-32.8	11
-44.7	-44.2	-44.3	-44.0	-43.7	-43.4	-43.6	-43.9	-44.1	-44.2	-44.50	-45.5	-43.8	12
-46.9	-47.1	-47.2	-47.1	-46.9	-46.8	-46.0	-46.1	-46.2	-46.2	-46.18	-47.5	-44.2	13
-34.0	-33.1	-32.9	-32.6	-32.5	-32.0	-31.8	-31.9	-32.2	-32.0	-37.58	-46.2	-31.8	14
-41.8	-41.9	-41.9	-41.9	-42.0	-42.0	-41.9	-41.9	-41.8	-42.3	-37.71	-42.3	-30.3	15
-41.5	-41.9	-42.0	-42.0	-42.2	-42.3	-42.4	-42.8	-43.0	-43.2	-42.14	-43.2	-40.9	16
-44.6	-44.4	-44.5	-44.6	-44.1	-43.7	-42.5	-41.3	-40.1	-38.9	-43.53	-44.8	-38.9	17
-42.6	-42.8	-43.8	-44.9	-45.0	-45.0	-45.0	-44.9	-44.4	-43.9	-40.24	-45.3	-35.5	18
-41.5	-41.6	-41.2	-40.9	-40.9	-40.9	-41.0	-40.9	-41.0	-40.9	-42.03	-45.1	-40.9	19
-42.2	-42.5	-42.3	-41.5	-40.5	-39.4	-38.0	-37.1	-36.1	-35.2	-40.80	-43.0	-35.2	20
-17.0	-15.3	-14.2	-12.4	- 9.8	- 6.9	- 5.9	- 6.4	- 6.2	- 6.3	-18.99	-35.2	- 5.4	21
-23.6	-23.9	-24.0	-24.1	-24.1	-24.1	-24.3	-24.5	-24.7	-23.8	-18.25	-24.7	- 6.3	22
-23.9	-24.4	-24.9	-25.7	-26.8	-27.9	-28.0	-28.1	-27.3	-27.9	-24.61	-28.0	-22.2	23
-24.8	-23.1	-22.4	-21.9	-20.8	-20.1	-19.2	-18.2	-17.0	-15.3	-24.87	-32.3	-15.3	24
-20.8	-18.7	-17.0	-17.9	-20.5	-23.4	-24.8	-25.3	-24.6	-23.9	-20.40	-27.8	- 9.1	25
-29.0	-29.1	-29.8	-30.2	-30.3	-32.5	-32.8	-33.0	-33.0	-33.1	-26.06	-33.1	-16.3	26
-32.7	-32.6	-33.2	-33.9	-34.0	-34.2	-34.7	-34.9	-34.8	-35.0	-33.06	-35.0	-31.5	27
-36.8	-35.6	-34.9	-34.8	-33.8	-32.6	-32.7	-32.9	-33.1	-34.0	-35.53	-38.0	-32.5	28
-34.0	-33.9	-34.3	-34.8	-35.0	-34.8	-34.8	-34.8	-34.8	-34.0	-33.98	-35.1	-32.1	29
-35.15	-34.94	-34.92	-34.87	-34.83	-34.88	-34.85	-34.89	-34.79	-34.69	-34.73	-38.59	-30.03	Mean
-35.12	-34.91	-34.88	-34.82	-34.77	-34.81	-34.77	-34.80	-34.70	-34.59				Corr.
- 0.39	- 0.18	- 0.15	- 0.09	- 0.04	- 0.08	- 0.04	- 0.07	0.03	0.14				D. f. m.

## TEMPERATURE OF THE AIR. C°.

1896. MARCH.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-34.0	-34.0	-33.0	-32.2	-32.5	-31.5	-32.0	-31.3	-31.0	-31.4	-32.2	-32.6	-33.4	-34.3
2	-33.8	-33.0	-32.3	-32.0	-32.7	-32.6	-31.0	-27.9	-26.0	-25.9	-24.4	-22.9	-24.3	-25.2
3	-28.5	-29.5	-30.0	-30.0	-30.2	-30.0	-29.9	-29.3	-29.0	-31.1	-30.5	-29.9	-29.6	-29.7
4	-25.5	-25.3	-25.5	-25.4	-25.3	-26.0	-26.1	-27.6	-28.7	-31.7	-33.6	-34.9	-36.1	-36.0
5	-41.0	-41.4	-40.8	-41.5	-42.0	-41.8	-41.0	-40.9	-41.9	-41.5	-41.7	-41.8	-41.8	-42.3
6	-41.1	-40.7	-40.0	-39.8	-37.0	-37.0	-36.8	-35.4	-34.0	-32.4	-31.0	-29.5	-29.5	-28.3
7	-23.5	-23.3	-23.5	-23.8	-24.1	-24.3	-24.5	-24.9	-25.7	-26.9	-27.7	-28.4	-29.2	-29.9
8	-30.6	-29.8	-29.0	-28.4	-28.0	-27.0	-25.9	-25.1	-24.8	-24.2	-23.0	-21.8	-21.0	-19.4
9	- 7.0	- 6.5	- 5.8	- 5.1	- 5.0	- 4.0	- 6.5	-12.0	-14.7	-17.6	-19.0	-20.2	-20.9	-21.5
10	-27.8	-28.5	-28.0	-26.8	-26.9	-26.3	-25.0	-24.3	-24.0	-23.9	-24.0	-23.9	-23.0	-22.4
11	-16.1	-15.9	-15.5	-15.3	-15.0	-14.5	-14.3	-13.9	-13.9	-13.6	-15.9	-16.4	-16.8	-17.0
12	-15.0	-14.5	-13.8	-13.0	-12.8	-12.1	-11.4	- 9.9	- 9.6	-11.0	-10.7	-11.9	-11.2	-10.4
13	-11.5	-12.5	-12.0	-12.0	-12.5	-14.0	-14.5	-14.9	-12.0	-10.1	- 8.0	- 6.9	- 6.2	- 6.3
14	-23.9	-23.3	-23.0	-22.0	-22.5	-22.0	-22.1	-22.8	-23.8	-23.4	-22.8	-21.9	-21.0	-20.4
15	-13.1	-13.0	-12.3	-12.3	-12.2	-11.5	-11.0	-10.9	-10.2	- 9.9	- 9.0	- 8.5	- 9.5	- 9.6
16	- 7.0	- 6.8	- 7.0	- 6.9	- 6.8	- 6.6	- 6.5	- 6.9	- 7.0	- 7.6	- 8.3	- 9.6	-10.3	-10.7
17	- 8.9	- 9.4	-10.5	-11.4	-12.2	-13.6	-13.1	-12.6	-12.5	-12.5	-12.3	-11.9	-12.0	-12.9
18	-19.1	-17.7	-17.3	-19.2	-20.8	-20.6	-20.9	-21.1	-20.4	-19.9	-20.0	-19.3	-19.0	-19.4
19	-20.2	-22.9	-20.0	-19.6	-19.1	-18.9	-18.8	-19.0	-19.3	-18.4	-18.3	-18.1	-17.4	-16.4
20	-19.8	-21.0	-21.5	-21.3	-21.3	-20.7	-20.4	-19.9	-19.3	-19.1	-18.2	-17.2	-17.1	-17.0
21	-15.9	-16.0	-16.8	-16.6	-17.5	-17.4	-17.6	-17.5	-19.0	-21.5	-16.5	-15.6	-15.0	-14.0
22	-15.9	-14.8	-15.4	-15.2	-15.1	-15.3	-16.0	-16.9	-18.8	-19.9	-20.6	-20.9	-21.4	-22.1
23	-22.5	-21.1	-21.2	-20.6	-17.1	-15.9	-14.3	-13.0	-13.2	-13.9	-14.0	-14.7	-13.9	-13.8
24	-20.5	-19.8	-19.9	-19.6	-20.0	-23.2	-24.1	-23.8	-22.2	-19.3	-18.9	-18.0	-18.6	-19.1
25	-29.5	-28.9	-29.8	-30.3	-29.4	-27.3	-24.4	-21.7	-20.2	-19.1	-19.8	-17.9	-17.4	-17.2
26	-14.8	-14.5	-14.3	-13.5	-13.1	-12.4	-11.0	-11.0	-12.0	-12.3	-12.0	-11.1	-11.0	-11.3
27	- 6.0	- 5.1	- 5.0	- 5.2	- 4.9	- 4.9	- 5.0	- 5.1	- 5.3	- 5.2	- 5.0	- 5.1	- 5.0	- 4.3
28	- 5.9	- 5.6	- 6.0	- 6.5	- 6.8	- 6.2	- 6.0	- 6.5	- 8.3	- 9.8	-12.0	-13.7	-15.1	-15.6
29	-17.9	-17.8	-17.5	-17.1	-16.3	-15.5	-14.9	-13.9	-13.2	-12.9	-12.3	-12.0	-12.9	-13.0
30	- 5.5	- 5.6	- 5.3	- 5.9	- 6.1	- 6.5	- 7.0	- 7.2	- 6.8	- 6.3	- 6.9	- 7.1	- 6.6	- 6.1
31	- 7.5	- 8.3	- 9.0	- 9.4	- 9.3	- 8.0	- 8.0	- 6.8	- 6.8	- 6.4	- 7.1	- 8.4	- 8.7	- 9.2
Mean	-19.65	-19.56	-19.35	-19.29	-19.18	-18.95	-18.71	-18.52	-18.50	-18.67	-18.57	-18.45	-18.55	-18.54
Corr.	-19.33	-19.26	-19.08	-19.05	-18.97	-18.77	-18.56	-18.40	-18.41	-18.61	-18.54	-18.45	-18.58	-18.60
D. f. m.	- 0.44	- 0.37	- 0.19	- 0.16	- 0.08	0.12	0.33	0.49	0.48	0.28	0.35	0.44	0.31	0.29

1896. MARCH.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt	Mean	Min.	Max.	Day.
-34.8	-35.2	-35.2	-35.2	-36.5	-37.9	-38.4	-37.7	-35.0	-34.4	-33.99	-38.8	-30.5	1
-26.0	-26.2	-26.6	-27.0	-27.1	-27.0	-27.3	-27.8	-27.9	-27.9	-28.12	-34.4	-22.7	2
-29.3	-29.1	-28.6	-28.1	-27.5	-26.9	-26.8	-26.3	-26.0	-25.7	-28.81	-31.1	-25.7	3
-35.7	-35.5	-36.7	-37.7	-38.0	-39.3	-39.9	-40.3	-40.3	-40.6	-33.40	-40.6	-25.0	4
-42.9	-43.2	-42.8	-42.1	-42.2	-42.4	-42.3	-41.9	-41.3	-41.0	-41.81	-43.3	-40.8	5
-28.0	-27.9	-27.4	-27.1	-25.9	-24.9	-24.5	-23.6	-23.9	-23.7	-31.23	-41.1	-23.6	6
-31.0	-31.4	-32.0	-32.4	-32.8	-32.6	-32.6	-32.6	-32.0	-31.5	-28.36	-32.8	-22.7	7
-18.3	-16.4	-15.0	-13.9	-11.0	- 8.7	- 8.4	- 8.5	- 8.0	- 7.7	-19.75	-31.5	- 7.7	8
-22.2	-23.8	-24.3	-25.4	-25.1	-24.9	-25.1	-26.1	-27.0	-27.0	-17.36	-27.0	- 4.0	9
-22.0	-20.9	-20.0	-19.3	-18.8	-18.2	-17.9	-17.2	-16.8	-16.5	-22.60	-28.7	-16.5	10
-16.3	-15.6	-15.0	-14.5	-14.6	-14.4	-14.9	-14.8	-15.2	-15.1	-15.19	-17.1	-13.5	11
- 9.6	- 9.7	- 9.9	- 9.9	-11.0	-12.4	-11.4	-10.9	-10.5	-10.9	-11.40	-15.1	- 9.3	12
- 7.5	- 9.9	-10.2	- 9.8	- 9.5	-10.4	-11.3	-15.8	-18.3	-24.0	-11.67	-24.0	- 5.7	13
-19.5	-17.6	-16.0	-15.0	-14.0	-12.9	-13.2	-14.6	-13.8	-13.4	-19.37	-24.0	-12.7	14
- 9.3	- 8.6	- 9.0	- 7.9	- 7.0	- 6.9	- 7.0	- 6.9	- 6.3	- 6.9	- 9.53	-13.4	- 6.3	15
-12.1	-12.1	- 9.7	- 8.8	- 8.3	- 9.5	- 9.0	- 8.2	- 8.1	- 8.4	- 8.42	-12.9	- 6.3	16
-13.2	-13.9	-14.3	-15.1	-15.9	-16.3	-16.6	-17.9	-18.0	-18.5	-13.56	-18.5	- 8.4	17
-20.1	-21.9	-21.8	-21.7	-23.3	-23.1	-22.0	-20.9	-20.7	-20.5	-20.45	-24.3	-15.9	18
-17.7	-18.9	-19.7	-20.6	-20.7	-20.4	-19.3	-19.5	-19.4	-19.1	-19.21	-22.9	-15.9	19
-16.8	-16.4	-16.0	-16.3	-15.9	-15.9	-15.5	-15.9	-15.9	-16.1	-18.10	-23.1	-15.5	20
-13.6	-15.1	-15.5	-15.9	-16.2	-17.1	-17.5	-16.3	-16.3	-19.0	-16.64	-22.1	-13.6	21
-22.9	-23.5	-23.9	-23.8	-24.8	-25.3	-27.0	-26.1	-24.6	-23.4	-20.57	-28.5	-14.5	22
-15.0	-16.3	-17.6	-18.7	-19.9	-20.3	-21.8	-21.5	-21.2	-21.1	-17.61	-23.4	-13.0	23
-19.0	-19.1	-19.0	-18.7	-20.0	-23.1	-27.0	-29.7	-30.0	-29.9	-21.73	-30.0	-17.9	24
-15.1	-14.3	-13.7	-13.7	-14.1	-13.9	-14.0	-13.9	-14.5	-14.8	-19.79	-31.0	-13.2	25
-11.1	-11.2	-10.9	-10.5	- 9.7	- 8.9	- 8.0	- 7.1	- 6.3	- 6.1	-11.00	-15.7	- 6.1	26
- 4.1	- 3.7	- 3.5	- 3.2	- 3.1	- 4.0	- 4.0	- 7.3	- 7.0	- 6.0	- 4.88	- 7.9	- 3.0	27
-15.7	-15.9	-16.1	-16.6	-17.0	-17.0	-17.1	-17.6	-17.9	-18.0	-12.20	-18.0	- 5.6	28
-13.3	-13.0	-12.0	-10.8	- 9.0	- 7.7	- 7.0	- 6.6	- 6.0	- 5.5	-12.42	-18.1	- 5.5	29
- 6.1	- 6.1	- 6.1	- 6.0	- 6.2	- 6.2	- 6.9	- 7.1	- 8.0	- 7.4	- 6.46	- 8.0	- 5.3	30
- 9.3	-10.3	-11.9	-13.2	-15.0	-15.9	-16.2	-17.5	-14.0	-12.0	-10.34	-17.8	- 6.4	31
-18.63	-18.80	-18.72	-18.67	-18.71	-18.85	-19.00	-19.29	-19.04	-19.10	-18.89	-24.68	-13.96	Mean
-18.72	-18.92	-18.87	-18.85	-18.92	-19.09	-19.27	-19.59	-19.36	-19.45				Corr.
0.17	- 0.03	0.02	0.04	- 0.03	- 0.20	- 0.38	- 0.70	- 0.47	- 0.56				D. f. m.

TEMPERATURE OF THE AIR. C°.

1896. APRIL.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-11.0	-11.9	-12.3	-11.8	-11.0	-9.9	-8.6	-6.5	-6.5	-6.5	-6.8	-7.0	-7.6	-7.8
2	-8.7	-8.2	-7.0	-6.6	-6.6	-6.7	-6.8	-6.2	-6.0	-5.5	-5.4	-5.1	-4.9	-4.3
3	-5.5	-4.9	-5.2	-7.3	-8.0	-11.0	-11.8	-11.1	-10.2	-9.4	-8.9	-9.4	-9.3	-9.1
4	-8.0	-8.5	-9.0	-11.0	-12.0	-11.1	-11.2	-11.9	-12.8	-13.2	-13.7	-14.5	-14.6	-13.1
5	-20.0	-20.5	-19.9	-16.2	-14.5	-13.0	-12.0	-11.6	-11.0	-10.4	-9.7	-9.1	-7.8	-7.1
6	-8.0	-8.0	-8.2	-8.4	-8.3	-8.1	-8.4	-8.5	-7.8	-7.5	-7.5	-7.5	-7.6	-7.7
7	-9.6	-10.4	-10.8	-10.6	-10.9	-10.9	-10.2	-11.0	-10.9	-11.0	-12.0	-12.2	-12.1	-12.1
8	-11.5	-12.0	-11.9	-12.0	-12.0	-11.7	-11.0	-11.0	-11.2	-12.1	-12.1	-12.0	-12.5	-12.1
9	-10.8	-10.7	-11.0	-10.4	-9.7	-9.0	-9.0	-9.5	-9.4	-9.3	-9.7	-10.6	-10.9	-11.6
10	-15.9	-15.8	-15.7	-15.4	-15.3	-15.1	-15.0	-14.9	-14.8	-14.7	-14.7	-14.6	-14.6	-14.4
11	-13.7	-13.3	-13.0	-12.7	-13.2	-14.1	-15.8	-17.1	-17.5	-17.7	-18.3	-18.5	-19.0	-19.4
12	-26.0	-26.8	-27.2	-28.0	-28.7	-29.4	-30.0	-30.4	-30.2	-30.0	-29.8	-29.7	-29.6	-29.4
13	-33.3	-33.7	-33.8	-33.8	-33.6	-33.3	-32.9	-32.4	-31.9	-31.3	-30.5	-29.7	-28.8	-27.9
14	-31.6	-31.8	-33.0	-34.3	-33.2	-32.0	-29.0	-28.1	-27.9	-27.7	-27.5	-27.3	-27.4	-27.4
15	-32.9	-32.9	-32.9	-32.9	-32.4	-32.0	-31.6	-31.2	-30.8	-30.3	-29.8	-29.4	-29.1	-28.8
16	-30.5	-31.2	-31.7	-31.6	-30.9	-28.5	-27.0	-26.9	-27.2	-26.5	-26.5	-26.2	-26.0	-26.1
17	-30.0	-30.0	-30.2	-30.0	-29.6	-29.0	-28.4	-27.5	-27.3	-27.0	-26.0	-25.2	-25.0	-24.9
18	-22.0	-21.5	-21.3	-21.0	-21.3	-22.2	-22.0	-22.0	-21.5	-19.9	-19.0	-18.8	-19.1	-19.6
19	-26.3	-27.8	-27.5	-27.0	-26.9	-25.9	-25.2	-25.2	-23.2	-23.0	-22.4	-23.5	-23.6	-23.7
20	-27.0	-25.0	-24.0	-22.9	-21.8	-21.2	-21.1	-21.0	-20.3	-19.9	-19.7	-19.5	-20.3	-20.9
21	-20.0	-19.4	-19.2	-19.0	-19.0	-18.9	-18.9	-18.1	-17.5	-18.1	-18.0	-17.4	-16.8	-16.5
22	-13.8	-14.0	-13.5	-13.5	-13.5	-13.6	-13.8	-14.0	-13.9	-13.2	-14.0	-14.3	-14.9	-15.3
23	-21.1	-21.4	-21.4	-21.5	-20.9	-20.0	-19.4	-19.0	-18.9	-18.5	-18.2	-18.0	-17.8	-17.4
24	-15.0	-14.8	-15.1	-14.1	-13.8	-13.6	-13.3	-13.1	-13.0	-12.6	-12.0	-12.3	-12.0	-11.9
25	-16.1	-16.1	-15.9	-15.9	-15.0	-14.1	-14.5	-13.9	-13.0	-12.2	-12.0	-12.0	-12.0	-12.7
26	-18.4	-18.9	-19.2	-19.4	-19.7	-19.6	-19.0	-18.6	-18.2	-17.8	-16.5	-15.6	-14.8	-14.4
27	-15.0	-14.0	-13.9	-13.5	-13.3	-13.3	-14.0	-13.9	-13.7	-13.1	-13.5	-13.9	-14.0	-13.7
28	-16.9	-16.5	-16.4	-16.5	-16.3	-16.1	-15.6	-14.6	-13.7	-13.5	-13.0	-13.0	-13.8	-14.0
29	-25.2	-25.5	-26.3	-26.3	-26.1	-26.3	-26.0	-25.2	-25.4	-25.3	-25.1	-24.7	-24.3	-23.8
30	-27.9	-28.1	-28.7	-29.0	-28.0	-27.9	-27.0	-25.9	-25.2	-24.7	-24.5	-22.9	-21.4	-23.1
Mean	-19.06	-19.12	-19.17	-19.09	-18.85	-18.58	-18.28	-18.01	-17.70	-17.40	-17.23	-17.13	-17.05	-17.01
Corr.	-19.29	-19.33	-19.36	-19.26	-19.00	-18.71	-18.39	-18.09	-17.76	-17.44	-17.25	-17.13	-17.03	-16.97
D. f. m.	-1.14	-1.18	-1.21	-1.11	-0.85	-0.56	-0.24	0.06	0.39	0.71	0.90	1.02	1.12	1.18

1896. APRIL.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9 h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
- 8.7	- 9.0	- 9.2	- 9.3	- 9.7	- 9.8	-10.1	-10.2	- 9.8	- 9.0	- 9.17	-12.3	- 6.0	1
- 4.1	- 4.0	- 3.9	- 3.7	- 4.0	- 4.6	- 5.0	- 5.0	- 5.0	- 5.1	- 5.52	- 9.0	- 3.6	2
- 9.1	- 8.6	- 8.0	- 7.6	- 7.4	- 7.5	- 7.9	- 7.8	- 7.6	- 7.8	- 8.35	-12.0	- 4.5	3
-14.0	-15.2	-15.3	-17.7	-18.8	-18.6	-18.3	-18.3	-18.0	-18.6	-14.06	-19.4	- 7.8	4
- 6.6	- 6.2	- 6.3	- 6.8	- 7.0	- 7.2	- 7.3	- 7.9	- 8.0	- 8.2	-10.60	-20.7	- 6.2	5
- 8.0	- 7.8	- 8.0	- 8.3	- 8.7	- 8.8	- 8.8	- 8.8	- 9.2	- 9.5	- 8.23	- 9.5	- 7.5	6
-12.5	-11.6	-11.0	-10.7	-10.5	-10.4	-10.4	-10.4	-10.4	-10.8	-10.98	-12.7	- 9.5	7
-12.1	-11.7	-11.3	-10.9	-11.0	-10.7	-11.2	-11.4	-11.0	-10.9	-11.55	-12.5	-10.6	8
-12.2	-13.0	-13.7	-14.1	-14.6	-14.9	-15.5	-15.6	-17.0	-16.5	-12.03	-17.0	- 9.0	9
-14.6	-14.2	-14.2	-14.2	-14.1	-14.0	-13.8	-13.2	-13.6	-13.7	-14.60	-17.9	-13.0	10
-20.3	-20.5	-21.0	-21.1	-21.8	-22.3	-23.2	-24.0	-24.8	-25.3	-18.65	-25.3	-12.4	11
-29.5	-29.6	-29.9	-30.2	-30.7	-31.2	-31.9	-32.5	-32.7	-33.0	-29.85	-33.0	-25.3	12
-26.6	-25.3	-25.4	-25.4	-25.2	-25.1	-26.8	-28.4	-29.9	-31.4	-29.85	-33.8	-24.0	13
-28.1	-28.8	-29.3	-29.7	-30.7	-31.7	-32.2	-32.7	-32.7	-32.8	-30.29	-34.3	-26.0	14
-28.8	-28.9	-29.0	-29.0	-29.0	-29.1	-29.2	-29.4	-30.0	-30.3	-30.40	-33.3	-28.5	15
-26.3	-26.6	-26.9	-27.1	-27.5	-27.9	-28.5	-28.8	-29.0	-29.6	-28.13	-31.7	-25.6	16
-24.7	-24.1	-23.9	-23.9	-23.8	-23.8	-23.2	-22.8	-22.7	-22.2	-26.05	-30.2	-22.2	17
-20.7	-20.6	-19.3	-20.6	-22.0	-22.1	-23.3	-24.4	-25.0	-25.2	-21.43	-25.2	-18.4	18
-24.0	-24.6	-25.1	-26.0	-27.0	-27.8	-28.5	-28.9	-29.6	-29.8	-25.94	-29.8	-21.6	19
-20.5	-20.1	-20.1	-20.5	-22.0	-23.4	-21.4	-21.0	-20.3	-20.2	-21.42	-29.5	-19.1	20
-16.1	-15.8	-15.7	-15.4	-15.0	-14.6	-14.3	-14.2	-14.0	-13.9	-16.91	-20.2	-13.9	21
-15.8	-15.9	-16.1	-16.3	-17.0	-18.0	-18.8	-19.1	-20.0	-20.7	-15.54	-20.7	-13.2	22
-17.0	-16.7	-15.2	-14.2	-13.2	-13.9	-14.0	-14.5	-14.8	-15.0	-17.58	-21.7	-13.2	23
-12.0	-11.6	-11.2	-11.0	-11.4	-13.0	-14.5	-16.2	-16.3	-16.2	-13.33	-16.3	-11.0	24
-13.9	-14.2	-14.7	-14.8	-16.6	-17.0	-17.0	-17.4	-17.9	-18.2	-14.90	-18.2	-12.0	25
-13.9	-14.2	-14.8	-15.6	-16.0	-16.4	-16.3	-16.5	-16.1	-15.9	-16.91	-20.1	-13.5	26
-14.0	-14.3	-14.6	-14.7	-14.1	-15.4	-15.9	-16.7	-16.9	-16.9	-14.43	-17.7	-13.1	27
-15.0	-16.1	-17.1	-17.6	-18.4	-19.6	-20.9	-21.0	-22.7	-24.8	-16.80	-24.8	-12.4	28
-24.0	-23.8	-24.0	-24.4	-24.5	-25.3	-26.0	-26.9	-27.0	-27.5	-25.37	-27.5	-23.6	29
-23.0	-23.1	-23.4	-23.9	-24.5	-25.1	-26.0	-26.5	-26.4	-27.0	-25.55	-29.0	-21.0	30
-17.20	-17.20	-17.25	-17.49	-17.87	-18.31	-18.67	-19.02	-19.28	-19.53	-18.15	-22.18	-14.92	Mean
-17.14	-17.12	-17.14	-17.36	-17.72	-18.14	-18.48	-18.81	-19.05	-19.28				Corr.
1.01	1.03	1.01	0.79	0.43	0.01	- 0.33	- 0.66	- 0.90	- 1.13				D. f. m.

TEMPERATURE OF THE AIR. C°.

1896. MAY.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-27.3	-27.5	-28.1	-28.4	-27.7	-27.5	-26.9	-25.2	-26.0	-25.1	-25.2	-24.9	-24.3	-24.0
2	-25.2	-24.8	-24.7	-24.1	-23.3	-22.8	-23.7	-23.2	-22.9	-22.3	-22.6	-21.9	-22.0	-21.5
3	-24.5	-24.4	-24.5	-24.6	-24.0	-24.0	-23.9	-22.5	-21.6	-21.2	-20.7	-20.2	-18.9	-19.3
4	-16.3	-15.9	-16.0	-15.6	-15.2	-15.0	-14.8	-14.1	-13.0	-12.0	-12.8	-13.0	-13.0	-13.1
5	-14.9	-14.8	-14.8	-14.8	-14.9	-14.9	-15.0	-14.4	-14.9	-14.7	-14.8	-14.8	-14.7	-14.9
6	-16.7	-16.9	-17.1	-17.3	-17.7	-17.3	-17.3	-17.5	-18.0	-18.7	-19.8	-21.1	-21.0	-20.9
7	-26.0	-26.3	-27.4	-26.7	-26.5	-26.0	-25.9	-24.7	-23.9	-23.2	-23.0	-22.8	-22.0	-21.8
8	-23.0	-22.3	-22.5	-22.0	-21.3	-20.6	-20.0	-19.8	-19.1	-18.7	-18.0	-17.5	-17.2	-16.9
9	-16.0	-16.8	-16.3	-15.7	-15.6	-15.4	-15.0	-14.8	-15.0	-15.1	-14.3	-13.8	-14.5	-14.2
10	-17.9	-17.7	-17.3	-16.7	-15.9	-15.9	-15.7	-15.5	-14.9	-14.3	-14.0	-13.9	-12.9	-13.1
11	-16.0	-16.0	-15.9	-15.5	-14.5	-14.0	-13.8	-14.0	-13.8	-14.3	-14.0	-13.7	-13.0	-12.7
12	-11.6	-11.2	-11.0	-10.8	-10.6	-10.1	-10.2	-10.8	-10.0	- 9.6	- 9.4	- 9.6	- 9.1	- 8.6
13	- 7.0	- 7.1	- 7.3	- 7.3	- 7.5	- 8.0	- 8.1	- 8.5	- 8.5	- 8.8	- 9.7	-10.0	-10.5	-10.6
14	-10.7	-10.2	-10.3	-10.5	-10.8	-10.2	-10.2	-10.7	-10.9	-11.0	-11.8	-11.7	-12.0	-11.8
15	-16.9	-17.0	-17.5	-17.0	-16.2	-15.6	-15.9	-15.4	-14.2	-13.4	-12.9	-12.5	-12.5	-12.6
16	-13.4	-12.8	-12.4	-13.0	-13.0	-12.9	-12.9	-12.7	-12.7	-12.1	-12.0	-11.7	-11.3	-10.9
17	- 5.5	- 5.0	- 4.3	- 3.8	- 4.0	- 4.2	- 4.2	- 4.2	- 3.5	- 3.2	- 2.5	- 3.6	- 3.2	- 3.1
18	-13.1	-14.9	-14.9	-15.0	-14.9	-14.7	-14.0	-13.6	-14.2	-13.9	-14.0	-14.2	-14.0	-13.9
19	-16.5	-16.1	-15.9	-16.0	-15.6	-15.5	-15.0	-14.0	-14.3	-14.2	-14.3	-14.1	-14.0	-13.7
20	-16.0	-15.4	-14.9	-14.9	-14.3	-13.0	-12.0	-10.5	- 9.0	- 8.8	- 8.3	- 8.0	- 8.0	- 7.5
21	- 5.7	- 5.6	- 5.2	- 4.7	- 4.3	- 4.1	- 2.0	- 0.9	- 0.5	- 0.2	0.0	0.1	- 0.7	- 0.4
22	- 0.7	- 0.7	- 0.7	- 0.9	- 1.2	- 2.2	- 3.1	- 3.2	- 2.4	- 1.5	- 1.9	- 2.4	- 2.1	- 1.9
23	- 0.5	- 0.2	0.0	0.1	0.3	0.8	0.5	0.7	0.4	0.4	0.5	0.0	0.4	0.9
24	0.1	0.3	0.3	0.0	- 0.3	- 0.4	- 0.8	- 0.9	- 2.0	- 3.8	- 3.5	- 3.4	- 2.8	- 2.4
25	- 0.1	0.0	0.3	0.4	0.3	0.5	0.8	0.8	1.2	1.2	1.4	1.6	1.6	1.6
26	0.4	0.8	0.7	0.6	0.4	0.6	0.7	0.8	1.5	0.9	1.1	1.4	1.4	1.4
27	- 1.2	- 2.8	- 3.0	- 3.8	- 5.4	- 5.9	- 6.4	- 6.6	- 6.8	- 6.6	- 6.5	- 6.4	- 6.2	- 6.1
28	- 5.6	- 5.3	- 5.2	- 5.3	- 5.0	- 4.6	- 3.4	- 2.8	- 1.0	0.0	0.5	0.2	1.0	0.0
29	- 3.8	- 4.3	- 4.8	- 5.0	- 5.1	- 5.3	- 5.6	- 5.8	- 5.6	- 4.8	- 4.3	- 4.0	- 4.3	- 4.7
30	- 4.1	- 4.3	- 4.7	- 4.0	- 3.9	- 3.8	- 2.6	- 2.0	- 1.9	- 1.8	- 2.2	- 2.7	- 3.1	- 3.6
31	- 4.3	- 4.3	- 4.1	- 4.0	- 3.8	- 3.4	- 3.0	- 2.3	- 2.2	- 2.3	- 2.4	- 2.1	- 2.1	- 2.0
Mean	-11.61	-11.60	-11.60	-11.49	-11.34	-11.14	-10.95	-10.59	-10.31	-10.10	-10.05	-10.02	- 9.84	- 9.75
Corr.	-11.22	-11.25	-11.28	-11.21	-11.09	-10.93	-10.77	-10.45	-10.20	-10.03	-10.01	-10.02	- 9.88	- 9.82
D. f. m.	- 0.66	- 0.69	- 0.72	- 0.65	- 0.53	- 0.37	- 0.21	0.11	0.36	0.53	0.55	0.54	0.68	0.71



1896. MAY.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-24.0	-24.0	-24.0	-24.9	-25.5	-25.7	-26.0	-25.8	-25.9	-25.2	-25.80	-28.4	-24.0	1
-21.1	-21.2	-21.3	-21.6	-22.0	-22.4	-23.0	-23.6	-23.7	-24.1	-22.88	-25.2	-21.1	2
-18.0	-18.2	-18.4	-18.4	-17.5	-18.1	-17.6	-17.0	-16.8	-16.5	-20.45	-25.5	-16.5	3
-13.4	-13.7	-14.3	-13.8	-14.0	-15.1	-14.8	-14.9	-15.1	-15.0	-14.33	-17.0	-11.5	4
-15.0	-15.1	-15.0	-15.2	-15.5	-15.5	-15.9	-16.3	-16.3	-16.6	-15.15	-16.6	-14.1	5
-22.0	-22.3	-22.8	-23.0	-23.9	-24.1	-24.7	-25.1	-25.1	-25.7	-20.67	-25.7	-16.6	6
-22.0	-22.3	-22.5	-22.7	-23.0	-23.3	-23.5	-23.4	-23.0	-23.6	-23.98	-27.4	-21.8	7
-16.8	-16.4	-16.4	-16.1	-16.2	-16.3	-16.2	-16.1	-16.8	-16.6	-18.45	-23.9	-15.9	8
-14.5	-14.5	-14.3	-14.5	-15.0	-15.6	-16.2	-16.4	-17.0	-18.3	-15.37	-18.3	-13.8	9
-13.1	-13.1	-13.7	-14.0	-14.9	-15.4	-15.2	-15.4	-15.2	-15.9	-15.07	-19.3	-12.9	10
-12.7	-12.7	-13.0	-13.2	-14.0	-13.7	-13.0	-12.3	-11.4	-11.4	-13.69	-16.7	-11.4	11
- 8.0	- 6.8	- 6.0	- 5.7	- 5.7	- 5.7	- 5.9	- 6.0	- 6.3	- 6.6	- 8.55	-11.6	- 5.5	12
-11.1	-11.4	-11.0	-10.8	-10.2	-11.0	-12.2	-12.5	-12.1	-10.9	- 9.67	-13.4	- 6.6	13
-12.6	-12.8	-13.2	-14.0	-14.5	-14.9	-15.5	-16.3	-17.7	-17.2	-12.56	-17.7	- 9.5	14
-12.7	-13.2	-13.6	-13.5	-13.8	-13.7	-13.0	-13.4	-14.0	-13.5	-14.33	-17.5	-12.5	15
-10.5	-10.0	- 9.7	- 9.6	- 9.0	- 8.6	- 8.0	- 7.2	- 6.5	- 6.2	-10.80	-13.5	- 6.2	16
- 3.2	- 3.5	- 4.2	- 5.5	- 7.0	- 7.9	- 9.1	-10.2	-11.0	-12.1	- 5.33	-12.1	- 1.9	17
-14.1	-14.0	-14.5	-14.8	-14.8	-14.5	-15.0	-15.3	-16.0	-15.8	-14.50	-17.0	-12.1	18
-13.9	-14.0	-14.0	-13.8	-15.0	-14.8	-15.1	-15.5	-15.8	-15.9	-14.88	-17.0	-13.5	19
- 6.8	- 5.8	- 5.7	- 5.3	- 5.0	- 4.5	- 5.2	- 5.9	- 6.0	- 5.8	- 9.03	-16.0	- 4.5	20
- 1.2	- 2.2	- 2.8	- 3.2	- 3.9	- 2.9	- 3.0	- 2.1	- 1.9	- 1.0	- 2.43	- 5.8	0.4	21
- 2.1	- 2.2	- 2.0	- 1.9	- 1.5	- 1.6	- 1.2	- 1.2	- 0.9	- 0.7	- 1.68	- 3.6	- 0.7	22
1.1	1.2	1.1	1.0	0.9	0.9	0.9	0.4	0.3	0.2	0.51	- 0.7	1.2	23
- 2.0	- 1.7	- 1.5	- 1.5	- 1.7	- 2.2	- 1.8	- 1.0	- 0.8	- 0.2	- 1.42	- 4.6	0.3	24
1.9	2.2	2.0	1.7	1.1	0.8	0.8	0.5	0.6	0.5	0.95	- 0.2	2.2	25
0.8	0.2	0.4	1.2	0.9	- 0.1	- 0.3	- 0.2	- 0.7	- 0.7	- 0.59	- 0.7	1.7	26
- 6.0	- 6.0	- 6.0	- 5.9	- 5.9	- 5.9	- 5.4	- 5.5	- 5.7	- 5.7	- 5.49	- 6.8	- 0.7	27
- 0.8	- 0.8	- 0.3	- 1.0	- 1.0	- 2.0	- 3.0	- 3.6	- 3.5	- 3.7	- 2.34	- 5.7	1.2	28
- 5.0	- 5.2	- 5.3	- 5.8	- 5.8	- 5.0	- 4.5	- 4.0	- 4.0	- 4.0	- 4.83	- 6.2	- 3.7	29
- 3.5	- 3.2	- 3.4	- 3.7	- 4.0	- 3.9	- 4.0	- 4.4	- 4.5	- 4.4	- 3.49	- 4.9	- 1.7	30
- 2.0	- 1.9	- 1.7	- 1.5	- 1.9	- 2.0	- 1.7	- 1.5	- 1.3	- 1.0	- 2.45	- 4.4	- 1.0	31
- 9.82	- 9.83	- 9.91	-10.03	-10.30	-10.47	-10.59	-10.68	-10.78	-10.76	-10.56	-13.66	- 8.15	Mean
- 9.93	- 9.97	-10.09	-10.24	-10.55	-10.75	-10.91	-11.03	-11.17	-11.18				Corr.
0.63	0.59	0.47	0.32	0.01	- 0.19	- 0.35	- 0.47	0.61	0.62				D. f. m.

TEMPERATURE OF THE AIR. C°.

1896. JUNE.

Day.	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	Noon	1h	2h
1	-0.9	-0.7	-1.6	-2.7	-2.5	-2.5	-2.5	-2.6	-2.7	-2.4	-2.3	-2.6	-2.5	-2.6
2	-4.1	-4.0	-4.0	-4.0	-4.0	-4.1	-4.3	-3.9	-4.5	-4.4	-4.6	-5.0	-4.8	-4.8
3	-5.0	-4.9	-4.8	-4.8	-4.5	-4.2	-4.5	-4.2	-4.2	-4.0	-3.9	-3.8	-3.7	-3.2
4	-2.5	-3.8	-3.9	-3.7	-3.3	-3.1	-3.1	-3.5	-4.1	-4.0	-3.0	-1.9	-1.8	-1.9
5	-6.0	-5.9	-5.2	-6.1	-6.0	-5.9	-5.7	-5.2	-5.0	-4.8	-5.0	-4.6	-4.0	-3.5
6	-4.0	-3.5	-3.3	-3.8	-3.7	-2.8	-3.1	-2.9	-2.8	-1.9	-3.0	-2.6	-3.0	-3.3
7	-6.0	-5.8	-5.9	-6.0	-6.2	-6.0	-6.8	-6.1	-5.7	-5.0	-5.0	-4.6	-4.2	-3.8
8	-4.3	-4.1	-4.2	-3.9	-4.0	-3.3	-4.1	-3.8	-3.5	-3.2	-3.3	-3.3	-3.2	-3.4
9	-5.0	-5.6	-5.7	-5.6	-5.5	-5.0	-4.9	-4.2	-3.7	-3.3	-2.8	-2.3	-2.2	-2.2
10	-5.2	-5.7	-4.6	-5.0	-4.2	-5.2	-5.0	-3.8	-3.3	-2.9	-3.3	-2.7	-2.0	-1.7
11	-3.0	-5.0	-4.9	-4.6	-4.7	-4.6	-4.0	-3.5	-3.7	-4.0	-4.0	-4.0	-4.4	-4.6
12	-4.5	-4.8	-4.9	-5.2	-6.0	-4.9	-4.7	-4.6	-4.3	-4.0	-2.7	-1.6	-1.5	-1.2
13	-2.7	-2.8	-2.6	-3.2	-3.3	-3.8	-3.2	-2.5	-3.2	-2.3	-1.5	-0.6	-0.1	0.0
14	-0.6	-0.6	-1.0	-0.1	0.0	0.0	0.0	0.3	0.5	0.6	0.7	0.8	0.6	0.5
15	-0.8	-0.9	-1.3	-1.8	-2.0	-2.2	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3
16	-2.3	-2.6	-2.6	-2.0	-2.6	-2.1	-2.0	-2.0	-2.1	-2.4	-1.2	-1.8	-1.2	-0.8
17	-4.2	-4.8	-4.9	-4.9	-4.6	-4.0	-4.1	-3.5	-2.0	-1.6	-2.0	-3.7	-3.1	-2.8
18	-3.8	-4.1	-4.6	-3.8	-3.0	-3.0	-2.1	-2.0	-2.0	-1.6	-1.9	-2.1	-1.0	-0.1
19	-2.0	-2.0	-2.4	-2.0	-1.8	-1.9	-1.6	-1.0	-0.5	-0.8	-0.3	0.1	0.2	0.2
20	-0.7	-1.0	-1.7	-1.5	-0.6	0.2	0.7	1.1	1.2	2.0	2.0	2.7	2.0	2.4
21	0.8	0.6	0.6	0.7	0.7	0.9	0.9	1.0	1.0	1.0	1.1	1.5	1.5	1.3
22	2.0	1.9	2.0	1.7	1.5	1.6	1.4	2.1	2.2	2.8	2.5	2.6	2.5	2.6
23	0.5	0.9	0.7	0.5	0.7	0.9	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.3
24	1.0	1.3	1.2	1.4	1.5	1.7	1.5	1.1	1.3	0.8	1.0	0.7	0.7	0.5
25	0.0	0.3	0.0	0.0	0.0	0.0	-0.3	0.1	0.3	0.3	1.7	0.9	-0.9	-0.4
26	0.0	-0.6	-0.7	-0.6	-0.3	-0.2	-1.0	-0.8	0.0	-0.3	0.0	1.4	0.8	0.7
27	-0.3	-0.3	-0.7	-0.7	-0.6	-0.4	0.0	0.6	1.1	0.7	1.0	-0.1	1.3	1.5
28	0.1	0.2	0.4	0.6	0.4	0.3	0.4	0.5	0.6	0.7	0.6	0.5	0.6	0.8
29	-1.3	-1.6	-1.4	-1.3	-1.5	-1.7	-1.2	-0.7	-0.5	-0.3	-0.5	-0.7	-0.8	-0.8
30	-1.8	-1.8	-1.2	-0.7	-0.8	-0.8	-0.5	-0.3	-0.4	-0.7	-0.6	-0.6	-0.5	-0.4
Mean	-2.22	-2.39	-2.44	-2.44	-2.36	-2.20	-2.17	-1.85	-1.71	-1.54	-1.38	-1.29	-1.19	-1.07
Corr.	-2.24	-2.40	-2.45	-2.45	-2.37	-2.21	-2.18	-1.86	-1.71	-1.54	-1.38	-1.29	-1.19	-1.07
D. f. m.	-0.48	-0.64	-0.69	-0.69	-0.61	-0.45	-0.42	-0.10	-0.05	0.22	0.38	0.47	0.57	0.69

1896. JUNE.

TEMPERATURE OF THE AIR. C°.

3h	4h	5h	6h	7h	8h	9h	10h	11h	Mnt.	Mean	Min.	Max.	Day.
-2.6	-2.5	-2.1	-2.0	-2.0	-2.0	-2.1	-2.7	-3.0	-3.1	-2.30	-3.1	-0.7	1
-4.8	-4.8	-5.0	-5.0	-5.1	-5.2	-5.3	-5.2	-5.3	-5.1	-4.64	-5.3	-4.0	2
-3.0	-3.3	-3.0	-3.0	-3.0	-3.4	-2.9	-2.4	-2.2	-2.3	-3.68	-5.1	-2.2	3
-2.0	-2.4	-2.2	-2.2	-2.7	-2.8	-3.1	-3.8	-5.6	-6.1	-3.19	-6.1	-1.8	4
-4.0	-3.0	-3.5	-3.4	-3.0	-3.2	-3.7	-3.8	-3.8	-3.6	-4.50	-6.5	-3.0	5
-4.0	-3.8	-4.0	-3.6	-4.0	-5.0	-5.3	-5.4	-6.0	-6.5	-3.80	-6.5	-1.7	6
-3.2	-3.2	-2.7	-2.6	-3.2	-4.0	-4.5	-4.4	-4.2	-4.2	-4.72	-7.0	-2.5	7
-3.3	-3.6	-3.9	-4.1	-4.0	-4.2	-4.2	-4.7	-5.0	-5.0	-3.90	-5.0	-3.2	8
-2.0	-2.0	-1.8	-1.3	-0.8	-1.6	-3.1	-4.2	-5.1	-5.7	-3.57	-6.0	-0.8	9
-1.3	-1.7	-1.0	-1.0	-2.0	-1.3	-1.5	-2.3	-3.9	-4.1	-3.11	-6.0	-1.0	10
-4.0	-3.6	-4.0	-4.8	-4.5	-4.3	-4.2	-4.2	-4.1	-4.0	-4.28	-5.0	-1.0	11
-1.0	-1.2	-0.9	-0.8	-0.6	-0.5	-0.8	-0.7	-1.4	-1.9	-2.70	-6.0	-0.5	12
-0.5	-0.7	-0.1	-0.6	-1.0	-1.3	-1.1	-0.9	-0.9	-0.7	-1.65	-3.8	0.0	13
0.6	0.8	-0.2	0.4	0.3	0.1	0.1	0.0	-0.5	-0.8	0.12	-0.8	1.1	14
-2.3	-2.2	-2.3	-2.4	-2.4	-2.5	-2.5	-2.4	-2.5	-2.2	-2.13	-2.5	-0.8	15
-1.2	-1.7	-1.8	-1.8	-2.0	-2.6	-3.0	-3.8	-4.3	-4.8	-2.28	-5.2	-0.6	16
-2.3	-3.2	-3.0	-2.4	-3.0	-3.1	-3.0	-3.5	-3.5	-3.8	-3.38	-5.2	-1.0	17
0.0	-1.2	-0.4	0.0	-1.1	-1.4	-1.3	-2.2	-2.1	-2.3	-1.96	-4.7	0.6	18
0.3	0.5	0.1	-0.3	-0.7	-0.5	-1.0	-1.4	-0.9	-0.9	-0.86	-3.0	0.7	19
3.0	3.6	3.2	3.7	3.1	2.6	1.2	1.4	0.9	0.9	1.35	-1.7	4.0	20
1.3	1.3	1.0	1.5	1.0	1.5	1.6	1.2	1.3	1.6	1.15	0.5	1.6	21
0.6	0.3	0.1	-0.2	0.0	-0.3	-0.4	-0.7	-0.7	0.0	1.17	-0.7	3.2	22
1.2	1.3	1.2	1.0	0.9	0.8	0.9	0.9	1.1	1.0	0.97	0.0	1.3	23
0.5	1.1	0.8	0.5	0.5	0.8	0.9	0.7	0.8	0.7	0.96	0.2	2.0	24
0.0	-0.7	1.1	0.4	0.3	0.5	0.6	1.4	0.3	0.0	0.25	-1.8	2.3	25
0.0	-0.9	-0.9	-1.0	-1.6	-1.6	-1.2	-1.2	-1.6	-1.5	-0.55	-1.8	1.5	26
0.8	0.0	0.2	0.4	0.0	0.2	0.8	0.6	0.3	0.0	0.27	-1.8	2.1	27
0.4	0.0	-0.1	-0.3	-0.5	-0.7	-0.6	-0.4	-0.7	-1.0	0.12	-1.0	0.8	28
-0.9	-0.9	-0.9	-0.9	-1.2	1.4	-1.3	-1.2	-1.6	-1.8	-1.10	-1.0	-0.3	29
-0.8	-1.1	-1.3	-1.6	-1.6	1.7	-1.8	-1.8	-1.9	-2.0	-1.11	-2.0	-0.3	30
-1.15	-1.29	-1.23	-1.25	-1.44	-1.60	-1.73	-1.90	-2.20	-2.31	-1.76	-3.46	-0.14	Mean
-1.15	-1.28	-1.22	-1.24	-1.43	-1.59	-1.72	-1.89	-2.18	-2.29				Corr.
0.61	0.48	0.54	0.52	0.33	0.17	0.04	-0.13	-0.42	-0.53				D. f. m.

## TEMPERATURE OF THE AIR. C°.

1896. JULY.

Day.	2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.	Mean	Min.	Max.	Day.
1	-1.2	-0.8	-0.2	0.2	0.2	0.4	-0.3	0.0	-1.5	-1.8	-2.1	-1.3	-0.72	-2.1	0.4	1
2	-0.9	-0.6	-0.3	-0.2	0.2	0.1	-0.2	-0.4	-0.4	0.0	0.1	0.4	-0.22	-1.3	0.4	2
3	0.5	0.5	0.3	0.6	0.3	0.8	0.3	0.2	0.2	0.1	0.1	-1.5	0.23	-1.5	0.8	3
4	-0.6	0.8	-0.4	-0.4	0.8	0.6	0.9	0.4	-0.2	-0.2	0.1	-0.2	0.13	-1.5	0.9	4
5	-0.3	0.0	0.0	0.0	0.2	-0.2	-0.4	-0.5	-0.9	-1.7	-1.9	-2.6	-0.64	-2.6	0.2	5
6	-1.8	-2.5	-1.2	-1.7	0.0	-1.0	-0.8	-0.4	-0.8	-0.9	-1.2	-1.4	-1.16	-2.5	0.0	6
7	-1.4	-0.9	-1.1	-0.3	0.8	0.6	1.0	1.2	1.0	0.8	0.9	0.0	0.18	-1.4	1.2	7
8	0.8	1.2	1.0	0.8	1.0	1.2	1.0	0.6	0.7	0.6	0.5	0.9	0.84	0.0	1.2	8
9	-0.3	0.0	-0.4	-0.3	0.2	0.4	0.8	2.7	0.7	1.6	0.7	0.2	0.54	-0.4	2.7	9
10	0.4	0.7	0.1	0.0	0.2	0.4	0.6	0.6	0.6	0.6	0.4	0.4	0.41	0.0	0.7	10
11	0.8	0.7	0.8	0.9	0.8	0.9	0.7	0.8	0.9	0.2	0.5	0.7	0.72	0.2	0.9	11
12	-0.8	1.2	1.8	2.2	1.3	0.7	0.4	0.4	0.1	-0.2	-0.2	-0.2	0.58	-0.8	2.2	12
13	-0.4	-0.4	-0.4	-0.6	-0.6	-0.4	0.2	-0.8	-1.3	0.0	0.3	0.7	-0.33	-1.3	0.7	13
14	0.9	1.1	1.2	1.4	1.1	1.4	1.3	1.2	1.5	1.0	0.5	-0.7	1.02	-0.7	1.5	14
15	-0.6	0.4	-0.6	0.4	-0.5	0.8	-0.5	0.6	0.8	0.8	1.2	1.0	0.16	-0.6	1.2	15
16	0.9	1.1	1.2	1.1	0.9	0.9	0.7	0.7	0.8	0.7	0.7	0.6	0.86	0.6	1.2	16
17	-0.1	-0.9	-0.2	-1.0	-0.1	-0.2	0.0	0.3	0.8	0.9	1.0	0.8	0.10	-1.0	1.0	17
18	0.5	0.5	0.6	0.4	0.5	0.7	0.8	0.6	0.4	0.6	0.6	0.6	0.59	0.4	0.8	18
19	0.4	0.6	1.0	0.9	1.1	1.1	1.6	2.2	1.3	0.4	0.3	0.3	0.94	0.3	2.2	19
20		-0.1				-0.7		-0.3		-1.7		-1.8	-0.78	-1.8	0.1	20
21		-1.8				0.4		0.2		0.2		-0.1	-0.43	-1.8	0.4	21
22		-0.5				0.6		0.8		0.9		0.8	0.39	-0.5	0.9	22
23		0.5				0.4		0.2		0.2		-0.5	0.34	-0.5	0.7	23
24		-1.1				-1.1		-0.2		-1.4		0.0	-0.63	-1.4	0.9	24
25		0.7				1.6		0.3		-0.2		-0.2	0.59	-0.3	1.6	24
26		-0.7				-1.1		-0.2		-0.2		0.0	-0.37	-1.1	0.0	26
27		0.6				1.4		1.5		1.0		-0.2	0.78	-0.2	1.5	27
28		-0.8				0.4		2.0		0.2		0.1	0.61	-0.8	2.4	28
29		-0.4				1.8		1.0		-0.2		-0.3	0.44	-0.4	1.8	29
30		0.2				0.4		1.0		-0.3		-1.8	0.12	-1.8	1.0	30
31		-1.7				0.4		0.6		0.2		0.0	-0.31	-1.8	0.6	31
Mean	-0.20	-0.08	0.05	0.21	0.38	0.44	0.45	0.56	0.25	0.07	0.00	-0.17	0.16	-0.92	1.04	Mean
Corr.	-0.17	-0.06	0.07	-0.22	0.39	0.44	0.44	0.55	0.23	0.05	0.03	-0.20				Corr.
D. f. m.	-0.33	-0.22	-0.09	0.06	0.23	0.28	0.28	0.39	0.07	-0.11	-0.13	-0.36				D. f. m.

Smoothing the numbers D. f. m. by the formula  $t = \frac{1}{4}(a + 2b + c)$  and taking the periodical diurnal minima and maxima, their values and epochs, we obtain the numbers given in the following Table. The coördinates of the minima and maxima have been computed by a parabolic formula.<sup>1</sup>

The Table gives, for the months during which the Fram was drifting in the ice (reckoned from the 14<sup>th</sup> October, 1893), the mean Latitude and Longitude, the periodical diurnal Minima and Maxima with the corresponding time, in hours and tenths, and the periodical diurnal Range as the difference between the Maximum and Minimum.

	Lat.	Long.	Min.	h.	Max.	h.	Range.
1893. October . . .	78° 19'	135° 54'	— 0° 38	11.7 a.	0° 49	1.2 a.	0° 87
November . .	78 15	138 7	— 0° 47	3.7 p.	0° 49	3.8 a.	0° 96
December . .	79 0	137 5	— 0° 20	9.5 a.	0° 25	1.8 a.	0° 45
1894. January . . .	79 21	136 30	— 0° 33	10.7 a.	0° 29	0.7 a.	0° 62
February . .	80 1	134 23	— 0° 58	8.7 p.	0° 24	1.0 p.	0° 82
March . . . .	79 52	134 47	— 0° 41	11.7 p.	0° 70	2.9 p.	1° 11
April . . . . .	80 22	133 10	— 2° 15	2.1 a.	2° 07	2.0 p.	4° 22
May . . . . .	81 7	127 8	— 1° 25	3.4 a.	1° 25	4.0 p.	2° 50
June . . . . .	81 39	121 50	— 0° 78	2.0 a.	0° 73	2.2 p.	1° 51
July . . . . .	81 24	124 53	— 0° 43	11.5 p.	0° 46	0.7 p.	0° 89
August . . . .	81 4	127 34	— 0° 53	Mnt.	0° 50	3.2 p.	1° 08
September . .	81 14	132 56	— 0° 75	2.2 a.	0° 72	1.4 p.	1° 47
October . . .	81 39	117 16	— 0° 57	6.7 a.	0° 74	2.1 p.	1° 31
November . .	82 6	111 12	— 0° 46	2.4 a.	0° 42	6.5 p.	0° 88
December . .	82 45	106 12	— 0° 28	6.5 a.	0° 19	0.9 p.	0° 47
1895. January . . .	83 30	102 44	— 0° 36	5.5 p.	0° 57	7.1 a.	0° 93
February . .	83 37	102 48	— 0° 33	3.3 a.	0° 42	8.5 p.	0° 75
March . . . . .	84 5	100 52	— 0° 54	2.9 a.	0° 58	3.2 p.	1° 12
April . . . . .	84 15	95 57	— 1° 62	2.8 a.	1° 50	2.8 p.	3° 12
May . . . . .	84 34	87 24	— 0° 72	1.5 a.	0° 70	2.5 p.	1° 42
June . . . . .	84 38	81 7	— 0° 63	2.3 a.	0° 55	2.9 p.	1° 18
July . . . . .	84 39	74 24	— 0° 39	2.7 a.	0° 33	1.9 p.	0° 72
August . . . .	84 28	77 20	— 0° 48	0.3 a.	0° 62	2.1 p.	1° 10
September . .	85 1	78 53	— 0° 24	7.4 p.	0° 38	8.9 a.	0° 62

<sup>1</sup> Laying a *parabolic* curve with vertical axis parallel to the ordinates (values of D. f. m.) through the lowest and highest values of D. f. m. (b) and its adjacent values (a and c), we get for the minimum or maximum (the apex of the parabola), Abscissa

$$X = \frac{1}{4} \cdot \frac{c-a}{b - \frac{1}{2}(a+c)} \text{ hours, and ordinate } Y = b + \frac{1}{4}(c-a) X \text{ degrees.}$$

	Lat.	Long.	Min.	h.	Max.	h.	Range.
1895. October . . .	85° 29'	76° 48'	— 0° 60	11.9 a.	0° 55	0.3 a.	1° 15
November . .	85 45	64 59	— 0° 81	2.5 p.	0° 62	5.6 a.	1° 43
December . .	85 23	50 42	— 0° 33	11.6 a.	0° 27	2.1 a.	0° 60
1896. January . . .	84 59	40 16	— 0° 63	3.8 p.	0° 49	3.9 a.	1° 12
February . .	84 22	24 30	— 0° 50	0.9 p.	0° 48	6.1 a.	0° 98
March . . . .	84 6	24 18	— 0° 58	10.4 p.	0° 46	8.4 a.	1° 04
April . . . . .	84 15	16 21	— 1° 18	2.5 a.	1° 12	1.7 p.	2° 30
May . . . . .	83 55	11 54	— 0° 70	2.5 a.	0° 70	1.9 p.	1° 40
June . . . . .	83 2	12 20	— 0° 69	3.4 a.	0° 64	2.1 p.	1° 33
July . . . . .	82 40	13 5	— 0° 35	0.4 a.	0° 35	3.6 p.	0° 70

The Table shows that we have the ordinary solar diurnal period of the temperature of the air, with a minimum in the morning and a maximum in the afternoon, in the months of March, April, May, June, July, August and September, or that part of the year in which the sun is above the horizon during some, or all, of the 24 hours. In the months of October, November, December, January and February, when the sun is scarcely above, or altogether below, the horizon during the 24 hours — our dark season —, we meet with different forms of the diurnal period. Only in 4 instances, viz. October 1894, November 1894, February 1894 and 1895, do we find the higher temperatures during the day and the lower temperatures during the night, but in 11 instances we have the daytime *colder* than the night. In December there is a highest maximum about midnight, and a second maximum in the afternoon. A comparison between the amount of the diurnal range and the corresponding amount of clouds, seems to indicate that greater cloudiness is combined with a smaller temperature-range and vice versa.

A closer approximation to the normal diurnal period is gained by taking the means for 3 (or 2) years of the values of D. f. m. for every month. These means are given in the Table below. This Table also gives the “mean ordinate”, the amount and hour of the minimum and maximum, the diurnal range, and the mean latitude and longitude for the month.

	Jan. 1894-96	Febr. 1894-96	March 1894-96	April 1894-96	May 1894-96	June 1894-96	July 1894-96	August 1894-95	Sept. 1894-95	Oct. 1893-96	Nov. 1893-96	Dec. 1893-96
1 a. m.	0.20	0.00	-0.40	-1.52	-0.76	-0.62	-0.34	-0.51	-0.39	0.25	0.24	0.21
2	0.25	0.03	-0.36	-1.63	-0.84	-0.68	-0.34	-0.46	-0.42	0.25	0.19	0.20
3	0.30	0.05	-0.31	-1.62	-0.85	-0.69	-0.34	-0.42	-0.34	0.14	0.20	0.17
4	0.32	0.06	-0.26	-1.48	-0.80	-0.62	-0.30	-0.38	-0.20	0.00	0.25	0.12
5	0.34	0.09	-0.22	-1.24	-0.70	-0.52	-0.22	-0.28	-0.11	-0.13	0.27	0.05
6	0.34	0.14	-0.20	-0.95	-0.58	-0.40	-0.13	-0.15	-0.05	-0.23	0.26	-0.03
7	0.29	0.16	-0.11	-0.57	-0.39	-0.24	-0.02	0.01	-0.03	-0.29	0.21	-0.12
8	0.21	0.12	0.02	-0.13	-0.13	-0.06	0.08	0.13	0.02	-0.25	0.12	-0.18
9	0.08	0.05	0.10	0.30	0.11	0.11	0.17	0.19	0.11	-0.15	0.02	-0.19
10	-0.01	-0.01	0.14	0.71	0.29	0.26	0.22	0.26	0.15	-0.09	-0.07	-0.17
11	-0.04	-0.04	0.24	1.06	0.43	0.40	0.27	0.34	0.20	-0.12	-0.13	-0.13
Noon	-0.07	-0.08	0.37	1.31	0.57	0.52	0.33	0.43	0.29	-0.13	-0.19	-0.05
1 p. m.	-0.16	-0.08	0.45	1.47	0.71	0.60	0.35	0.50	0.35	-0.02	-0.30	0.02
2	-0.29	-0.07	0.48	1.55	0.82	0.63	0.35	0.51	0.37	0.10	-0.40	0.04
3	-0.40	-0.03	0.48	1.52	0.84	0.62	0.34	0.50	0.34	0.15	-0.42	0.03
4	-0.39	0.00	0.41	1.43	0.80	0.57	0.32	0.48	0.29	0.10	-0.35	0.02
5	-0.33	0.00	0.30	1.27	0.71	0.51	0.25	0.35	0.24	-0.02	-0.24	-0.01
6	-0.28	0.00	0.19	0.99	0.55	0.39	0.14	0.17	0.15	-0.04	-0.14	-0.05
7	-0.24	-0.08	0.06	0.60	0.33	0.22	0.04	-0.02	0.05	-0.03	-0.06	-0.07
8	-0.19	-0.06	-0.07	0.17	0.08	0.06	-0.07	-0.17	0.03	0.00	-0.01	-0.07
9	-0.12	-0.07	-0.20	-0.23	-0.10	-0.08	-0.18	-0.28	0.03	0.06	0.06	-0.08
10	-0.05	-0.05	-0.32	-0.60	-0.29	-0.25	-0.26	-0.37	-0.06	0.10	0.16	0.03
11	0.04	0.01	-0.39	-0.98	-0.46	-0.43	-0.32	-0.47	-0.21	0.14	0.25	0.09
Midnight	0.14	-0.01	-0.41	-1.30	-0.62	-0.55	-0.34	-0.53	-0.33	0.20	0.28	0.16
M. O.	0.21	0.06	0.27	1.03	0.57	0.42	0.24	0.33	0.20	0.12	0.20	0.10
Min.	-0.40	-0.08	-0.41	-1.64	-0.85	-0.69	-0.34	-0.53	-0.42	-0.29	-0.43	-0.19
Hour	<sup>h</sup> <sup>m</sup> 3 29 p.	<sup>h</sup> <sup>m</sup> 0 48 p.	<sup>h</sup> <sup>m</sup> 0 9 a.	<sup>h</sup> <sup>m</sup> 2 24 a.	<sup>h</sup> <sup>m</sup> 2 44 a.	<sup>h</sup> <sup>m</sup> 2 36 a.	<sup>h</sup> <sup>m</sup> 2 15 a.	<sup>h</sup> <sup>m</sup> 0 14 a.	<sup>h</sup> <sup>m</sup> 1 46 a.	<sup>h</sup> <sup>m</sup> 7 7 a.	<sup>h</sup> <sup>m</sup> 2 42 p.	<sup>h</sup> <sup>m</sup> 8 52 a.
Max.	0.34	0.16	0.48	1.55	0.84	0.63	0.35	0.54	0.36	0.28	0.28	0.21
Hour	<sup>h</sup> <sup>m</sup> 5 30 a.	<sup>h</sup> <sup>m</sup> 6 47 a.	<sup>h</sup> <sup>m</sup> 2 22 p.	<sup>h</sup> <sup>m</sup> 2 14 p.	<sup>h</sup> <sup>m</sup> 2 51 p.	<sup>h</sup> <sup>m</sup> 2 7 p.	<sup>h</sup> <sup>m</sup> 1 20 p.	<sup>h</sup> <sup>m</sup> 2 26 p.	<sup>h</sup> <sup>m</sup> 1 52 p.	<sup>h</sup> <sup>m</sup> 1 25 a.	<sup>h</sup> <sup>m</sup> 11 55 p.	<sup>h</sup> <sup>m</sup> 1 25 a.
Range	0.74	0.24	0.89	3.29	1.69	1.32	0.69	1.07	0.78	0.55	0.71	0.40
Lat.	82° 37'	82° 40'	82° 41'	82° 57'	83° 12'	83° 6'	82° 54'	82° 46'	83° 7'	82° 32'	82° 2'	82° 23'
Long.	93° 20'	87° 14'	86° 39'	81° 49'	75° 29'	71° 46'	70° 48'	102° 27'	100° 55'	114° 47'	104° 46'	98° 0'

The Table and the diagrams on Pl. III; 1 cm. = 1° C. show that.

We have the ordinary solar diurnal period in March, April, May, June, July, August and September, or in the sunny season and the equinoctial months.

October has the lowest minimum at 7 a. m. and the highest maximum at from 1 to 2 a. m. A second maximum occurs at 3 p. m. and a third at 10 a. m. In general the day is colder than the night.

November and January have the minimum in the afternoon, and the maximum in the morning hours.

December has a lowest minimum at 9 a. m. and a highest maximum at 1—2 a. m. There is a second maximum at 2 p. m. The day is colder than the night.

February has two minima, at 1 p. m. and at 9 p. m., a highest maximum at 7 a. m., and a second maximum at 5 p. m. The day is colder than the night.

Taking the means of D. f. m. for the 12 months in which the sun was entirely below the horizon (Oct. 1895, Nov. 1893, 94, 95, Dec. 1893, 94, 95, Jan. 1894, 95, 96, Febr. 1895, 96) we obtain

	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	11h	12h
a. m.	0°20	0°19	0°18	0°18	0°18	0°15	0°11	0°04	−0°05	−0°11	−0°15	−0°17
p. m.	−0°19	−0°22	−0°225	−0°20	−0°15	−0°11	−0°07	−0°03	0°02	0°11	0°16	0°195

Minimum  $-0^{\circ}23$  at  $2^h18^m$  p. m. Maximum  $+0^{\circ}20$  at  $0^h49^m$  a. m.

Mean ordinate  $0^{\circ}14$ . Range  $0^{\circ}43$ .

Mean Latitude  $82^{\circ}53'$ . Mean Longitude  $90^{\circ}59'$ .

The march of the temperature during 24 hours comes out very regularly, and with a single period. Day is colder than night. The range is small, but distinctly defined both in amount and direction. (Pl. III. 1 cm. =  $1^{\circ}$ ).

The solar diurnal period of the temperature of the air vanishes in the dark season. The period shown by the observations during this time must be ascribed to other causes than the radiation from the sun. The radiation from the twilight may have some effect, and this must tend in the same direction as the radiation of the sun. A period with the day colder than the night must have a different origin. We have seen (p. 278) that in the dark season the north component of the wind's frequency exceeds the south component uninterruptedly from 7 a. m. to 8 p. m. The wind-roses for the temperature of the air show, as will be found later, that in the dark season the northerly winds are colder than the southerly winds. It seems



reasonable to ascribe the diurnal period of the temperature found in the dark season to the effect of the wind.

A similar period seems to be not uncommon at other arctic stations. The range at such stations is always small, and the maxima and minima may occur at different hours, indicating that other causes than the sun's radiation are regulating the march of the period. Such stations that show the day colder than the night are *Bossekop*, Lat.  $69^{\circ}58'$ , December, 1882; *Sagastyr*, mouth of the river Lena, Lat.  $73^{\circ}23'$ , December, 1883; *Polaris Bay*, Lat.  $81^{\circ}36'$ , December, 1871; *Polaris House*, Lat.  $78^{\circ}18'$ , December, 1872.

The diurnal period resulting from the observations from the *Fram* will be subjected to a fuller discussion in another chapter, where I shall discuss the radiation, its effect and that of the amount of cloud and of the velocity of the wind, upon the amount of the diurnal range.

In order to find the effect of the amount of cloud upon the diurnal period of the temperature of the air, I have made calculations similar to those made for the velocity of the wind (p. 293 to 298). The result is shown in the following Tables.

Months.	Clear.			Overcast.		
	Number of days.	Amount of cloud.	Mean tempera- ture.	Number of days.	Amount of cloud.	Mean tempera- ture.
October . . . . .	12	0	— $26^{\circ}38$	36	10	— $19^{\circ}08$
November . . . . .	33	0	— $32^{\circ}27$	19	10	— $21^{\circ}71$
December . . . . .	44	0	— $34^{\circ}86$	17	10	— $27^{\circ}19$
January . . . . .	44	0	— $40^{\circ}38$	23	10	— $27^{\circ}25$
February . . . . .	36	0	— $40^{\circ}45$	19	10	— $27^{\circ}60$
March . . . . .	27	0	— $38^{\circ}83$	43	10	— $22^{\circ}57$
April . . . . .	25	0	— $27^{\circ}48$	34	10	— $16^{\circ}81$
May . . . . .	20	0	— $12^{\circ}86$	52	10	— $9^{\circ}14$
June . . . . .	13	4.5	— $4^{\circ}67$	77	10	— $1^{\circ}35$
July . . . . .	13	4.4	— $0^{\circ}74$	80	10	— $0^{\circ}06$
August . . . . .	12	4.7	— $0^{\circ}26$	49	10	— $1^{\circ}95$
September . . . . .	6	5.5	— $9^{\circ}42$	54	10	— $9^{\circ}07$
Mean . . . . .	24		— $22^{\circ}26$	42		— $15^{\circ}31$

In all the months, except July and August, the mean temperature of the 24 hours is lower with a clear than with an overcast sky. The difference

in March amounts to  $16^{\circ}$  and in January and February to  $13^{\circ}$ . The mean difference is  $7^{\circ}$ . The mean surplus temperature of the clear (or half-clear) days of July and August is only  $1^{\circ}2$ .

The following Tables show the diurnal period of the temperature of the air in the form of (smoothed) differences from the diurnal mean, and the minimum, maximum, range, mean ordinate and mean temperature for each month and season, and for the year.

Hour.	October 1893, 94, 95.		November 1893, 94, 95.		December 1893, 94, 95.		January 1894, 95, 96.	
	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.
2 a. m.	+ 1°22	- 0°88	+ 0°50	- 0°90	+ 0°59	- 0°85	+ 0°35	- 0°08
4	+ 0°42	- 0°56	+ 0°46	- 0°32	+ 0°35	- 0°53	+ 0°37	+ 0°09
6	- 0°14	- 0°36	+ 0°44	- 0°04	+ 0°03	- 0°41	+ 0°33	+ 0°33
8	- 0°70	+ 0°07	+ 0°09	+ 0°08	- 0°24	- 0°02	+ 0°18	+ 0°32
10	- 0°63	+ 0°47	- 0°25	+ 0°28	- 0°40	+ 0°45	+ 0°02	- 0°06
Noon	- 0°47	+ 0°60	- 0°28	+ 0°41	- 0°30	+ 0°98	- 0°13	+ 0°07
2 p. m.	- 0°41	+ 0°84	- 0°45	+ 0°34	- 0°18	+ 0°81	- 0°36	- 0°29
4	- 0°27	+ 0°65	- 0°40	+ 0°37	- 0°23	+ 0°65	- 0°41	- 0°41
6	- 0°19	+ 0°27	- 0°24	+ 0°46	- 0°19	+ 0°37	- 0°40	- 0°05
8	- 0°16	- 0°03	- 0°19	+ 0°06	+ 0°02	- 0°11	- 0°28	0°00
10	+ 0°37	- 0°46	+ 0°08	- 0°33	+ 0°25	- 0°52	0°00	- 0°03
Midnight	+ 1°26	- 0°86	+ 0°49	- 0°79	+ 0°54	- 0°89	+ 0°31	- 0°12
Mean tmp.	- 26°4	- 19°1	- 32°3	- 21°7	- 34°9	- 27°2	- 40°4	- 27°3
Hour.	February 1894, 95, 96.		March 1894, 95, 96.		April 1894, 95, 96.		May 1894, 95, 96.	
	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.
2 a. m.	+ 0°37	- 0°39	- 0°25	- 0°51	- 1°66	- 1°32	- 0°85	- 0°69
4	+ 0°14	- 0°13	- 0°20	- 0°26	- 1°73	- 0°89	- 0°94	- 0°64
6	- 0°08	+ 0°33	- 0°22	- 0°21	- 1°24	- 0°46	- 0°57	- 0°50
8	- 0°26	+ 0°11	- 0°12	- 0°01	- 0°35	+ 0°02	+ 0°03	- 0°13
10	- 0°27	- 0°15	+ 0°22	+ 0°09	+ 0°53	+ 0°62	+ 0°36	+ 0°28
Noon	- 0°30	+ 0°10	+ 0°40	+ 0°42	+ 1°36	+ 0°96	+ 0°54	+ 0°49
2 p. m.	- 0°30	+ 0°45	+ 0°53	+ 0°47	+ 1°78	+ 1°25	+ 0°82	+ 0°71
4	- 0°13	+ 0°51	+ 0°31	+ 0°31	+ 1°66	+ 1°03	+ 0°88	+ 0°72
6	+ 0°02	+ 0°25	+ 0°11	+ 0°21	+ 1°21	+ 0°70	+ 0°57	+ 0°45
8	+ 0°20	- 0°14	- 0°23	+ 0°10	+ 0°34	+ 0°01	- 0°02	+ 0°07
10	+ 0°32	- 0°47	- 0°30	- 0°14	- 0°58	- 0°70	- 0°42	- 0°24
Midnight	+ 0°42	- 0°47	- 0°24	- 0°56	- 1°27	- 1°30	- 0°59	- 0°59
Mean tmp.	- 40°5	- 27°6	- 38°8	- 22°6	- 27°5	- 16°8	- 12°9	- 9°1

Hour.	June 1894, 95, 96.		July 1894, 95, 96.		August 1894, 95.		September 1894, 95.	
	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.
2 a. m.	- 1° 27	- 0° 53	- 0° 36	- 0° 38	- 0° 21	- 0° 35	+ 1° 99	- 0° 54
4	- 1° 27	- 0° 49	- 0° 40	- 0° 30	- 0° 22	- 0° 29	+ 2° 94	- 0° 28
6	- 0° 89	- 0° 28	- 0° 18	- 0° 12	- 0° 06	- 0° 14	+ 2° 06	- 0° 05
8	- 0° 25	+ 0° 01	+ 0° 13	+ 0° 12	+ 0° 08	+ 0° 12	+ 1° 32	+ 0° 09
10	+ 0° 40	+ 0° 26	+ 0° 30	+ 0° 21	+ 0° 11	+ 0° 23	+ 0° 66	+ 0° 23
Noon	+ 0° 83	+ 0° 47	+ 0° 36	+ 0° 35	+ 0° 24	+ 0° 31	+ 0° 05	+ 0° 33
2 p. m.	+ 1° 03	+ 0° 55	+ 0° 38	+ 0° 37	+ 0° 25	+ 0° 44	- 0° 40	+ 0° 36
4	+ 1° 09	+ 0° 46	+ 0° 28	+ 0° 35	+ 0° 22	+ 0° 40	- 0° 96	+ 0° 20
6	+ 0° 95	+ 0° 27	+ 0° 05	+ 0° 17	+ 0° 14	+ 0° 11	- 1° 72	+ 0° 07
8	+ 0° 47	+ 0° 02	- 0° 13	- 0° 04	- 0° 07	- 0° 14	- 2° 31	- 0° 02
10	- 0° 20	- 0° 28	- 0° 19	- 0° 27	- 0° 17	- 0° 47	- 2° 57	- 0° 24
Midnight	- 0° 86	- 0° 49	- 0° 24	- 0° 36	- 0° 27	- 0° 40	- 1° 02	- 0° 59
Mean tmp.	- 4° 7	- 1° 4	0° 7	- 0° 1	- 0° 3	- 2° 0	- 9° 4	- 9° 1
Hour.	Winter Dec., Jan., Feb.		Spring Mar., Apr., May.		Summer June, July, Aug.		Autumn Sept., Oct., Nov.	
	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.
2 a. m.	+ 0° 45	- 0° 45	- 0° 75	- 0° 84	- 0° 61	- 0° 42	+ 1° 24	- 0° 77
4	+ 0° 29	- 0° 19	- 0° 58	- 0° 60	- 0° 63	- 0° 36	+ 1° 27	- 0° 39
6	+ 0° 09	+ 0° 08	- 0° 39	- 0° 39	- 0° 38	- 0° 18	+ 0° 79	- 0° 15
8	- 0° 11	+ 0° 14	- 0° 08	- 0° 04	- 0° 01	+ 0° 08	+ 0° 24	+ 0° 08
10	- 0° 22	+ 0° 08	+ 0° 37	+ 0° 33	+ 0° 27	+ 0° 23	- 0° 07	+ 0° 33
Noon	- 0° 24	+ 0° 38	+ 0° 62	+ 0° 62	+ 0° 48	+ 0° 38	- 0° 23	+ 0° 45
2 p. m.	- 0° 28	+ 0° 32	+ 0° 83	+ 0° 81	+ 0° 55	+ 0° 45	- 0° 42	+ 0° 51
4	- 0° 26	+ 0° 25	+ 0° 69	+ 0° 69	+ 0° 53	+ 0° 40	- 0° 54	+ 0° 41
6	- 0° 19	+ 0° 19	+ 0° 42	+ 0° 45	+ 0° 38	+ 0° 17	- 0° 72	+ 0° 27
8	- 0° 02	- 0° 08	- 0° 05	+ 0° 06	+ 0° 09	- 0° 05	- 0° 89	0° 00
10	+ 0° 19	- 0° 34	- 0° 41	- 0° 36	- 0° 19	- 0° 34	- 0° 71	- 0° 34
Midnight	+ 0° 42	- 0° 49	- 0° 71	- 0° 82	- 0° 46	- 0° 42	+ 0° 24	- 0° 75
Mean tmp.	- 38° 6	- 27° 3	- 26° 4	- 16° 2	- 1° 4	- 1° 1	- 22° 7	- 16° 6
Hour.	Dark Season Oct.—Febr.		Sunny Season April—August.		Equinoct. Months March—Sept.		Year	
	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.
2 a. m.	+ 0° 61	- 0° 63	- 0° 87	- 0° 65	+ 0° 88	- 0° 52	+ 0° 08	- 0° 62
4	+ 0° 35	- 0° 29	- 0° 91	- 0° 52	+ 1° 37	- 0° 27	+ 0° 09	- 0° 39
6	+ 0° 12	- 0° 03	- 0° 59	- 0° 30	+ 0° 92	- 0° 13	+ 0° 03	- 0° 16
8	- 0° 19	+ 0° 11	- 0° 07	+ 0° 03	+ 0° 55	+ 0° 04	+ 0° 01	0° 07
10	- 0° 31	+ 0° 20	+ 0° 34	+ 0° 32	+ 0° 22	+ 0° 16	+ 0° 09	0° 24
Noon	- 0° 30	+ 0° 43	+ 0° 67	+ 0° 52	+ 0° 22	+ 0° 38	+ 0° 18	0° 46

Hour.	Dark Season Oct.—Febr.		Sunny Season April—August.		Equinoct. Months March—Sept.		Year	
	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.	Clear.	Overcast.
2 p. m.	− 0° 34	+ 0° 43	+ 0° 85	+ 0° 66	+ 0° 06	+ 0° 42	+ 0° 17	+ 0° 52
4	− 0° 29	+ 0° 35	+ 0° 83	+ 0° 59	− 0° 33	+ 0° 26	+ 0° 11	+ 0° 44
6	− 0° 20	+ 0° 26	+ 0° 58	+ 0° 34	− 0° 80	+ 0° 14	− 0° 03	+ 0° 27
8	− 0° 08	− 0° 04	+ 0° 12	− 0° 02	− 1° 27	+ 0° 04	− 0° 22	− 0° 02
10	+ 0° 20	− 0° 36	− 0° 31	− 0° 39	− 1° 43	− 0° 19	− 0° 28	− 0° 35
Midnight	+ 0° 60	− 0° 63	− 0° 65	− 0° 63	− 0° 63	− 0° 58	− 0° 13	− 0° 62
Mean tmp	− 34° 9	− 24° 6	− 8° 9	− 5° 9	− 24° 1	− 15° 8	− 22° 3	− 15° 3

	Amount of cloud.	Minimum.		Maximum.		Range.	Mean ord.	Mean temp.
		Hour.	Dev.	Hour.	Dev.			
January	0	5 p. m.	− 0° 41	3 a. m.	+ 0° 38	0° 79	0° 26	− 40° 4
—	10	3 p. m.	− 0° 42	7 a. m.	+ 0° 33	0° 75	0° 15	− 27° 3
February	0	1 p. m.	− 0° 32	1 a. m.	+ 0° 45	0° 77	0° 23	− 40° 5
—	10	1 a. m.	− 0° 48	3 p. m.	+ 0° 56	1° 04	0° 28	− 27° 6
March	0	9 p. m.	− 0° 31	2 p. m.	+ 0° 53	0° 84	0° 26	− 38° 8
—	10	1 a. m.	− 0° 62	1 p. m.	+ 0° 47	1° 09	0° 27	− 22° 6
April	0	3 a. m.	− 1° 78	2 p. m.	+ 1° 78	3° 56	1° 14	− 27° 5
—	10	1 a. m.	− 1° 38	2 p. m.	+ 1° 25	2° 63	0° 77	− 16° 8
May	0	3 a. m.	− 0° 98	3 p. m.	+ 0° 91	1° 89	0° 55	− 12° 9
—	10	2 a. m.	− 0° 69	3 p. m.	+ 0° 75	1° 44	0° 46	− 9° 1
June	4·5	3 a. m.	− 1° 27	4 p. m.	+ 1° 09	2° 36	0° 79	− 4° 7
—	10	2 a. m.	− 0° 53	2 p. m.	+ 0° 55	1° 08	0° 34	− 1° 4
July	4·4	4 a. m.	− 0° 40	2 p. m.	+ 0° 37	0° 77	0° 25	0° 7
—	10	2 a. m.	− 0° 38	2 p. m.	+ 0° 37	0° 74	0° 25	− 0° 1
August	4·7	Midnight	− 0° 27	1 p. m.	+ 0° 25	0° 52	0° 17	− 0° 3
—	10	1 a. m.	− 0° 40	3 p. m.	+ 0° 45	0° 85	0° 28	− 2° 0
Sept.	5·5	10 p. m.	− 2° 57	4 a. m.	+ 2° 94	5° 51	1° 50	− 9° 4
—	10	Midnight	− 0° 59	1 p. m.	+ 0° 37	0° 96	0° 25	− 9° 1
Oct.	0	9 a. m.	− 0° 73	1 a. m.	+ 1° 42	2° 15	0° 52	− 26° 4
—	10	1 a. m.	− 0° 93	2 p. m.	+ 0° 84	1° 77	0° 50	− 19° 1
Nov.	0	3 p. m.	− 0° 45	1 a. m.	+ 0° 56	1° 01	0° 32	− 32° 3
—	10	1 a. m.	− 0° 91	Noon	+ 0° 41	1° 32	0° 37	− 21° 7
Dec.	0	10 a. m.	− 0° 40	1 a. m.	+ 0° 62	1° 02	0° 28	− 34° 9
—	10	1 a. m.	− 0° 92	1 p. m.	+ 0° 98	1° 90	0° 55	− 27° 2

	Amount of cloud.	Minimum.		Maximum.		Range.	Mean ord.	Mean temp.
		Hour.	Dev.	Hour.	Dev.			
Winter . . . . .	0	2 p. m.	- 0° 28	1 a. m.	+ 0° 45	0° 73	0° 23	- 38° 6
— . . . . .	10	1 a. m.	- 0° 49	Noon	+ 0° 38	0° 87	0° 25	- 27° 3
Spring . . . . .	0	1 a. m.	- 0° 75	2 p. m.	+ 0° 83	1° 58	0° 48	- 26° 4
— . . . . .	10	1 a. m.	- 0° 84	2 p. m.	+ 0° 81	1° 65	0° 50	- 16° 2
Summer . . . . .	4·5	3 a. m.	- 0° 63	3 p. m.	+ 0° 55	1° 18	0° 38	- 1° 4
— . . . . .	10	1 a. m.	- 0° 42	2 p. m.	+ 0° 45	0° 87	0° 29	- 1° 1
Autumn . . . . .	1·8	8 p. m.	- 0° 89	4 a. m.	+ 1° 27	2° 16	0° 61	- 22° 7
— . . . . .	10	1 a. m.	- 0° 80	2 p. m.	+ 0° 51	1° 31	0° 37	- 16° 6
Dark Season . . .	0	11 a. m.	- 0° 31	1 a. m.	+ 0° 69	1° 00	0° 30	- 34° 9
— — . . .	10	1 a. m.	- 0° 67	1 p. m.	+ 0° 46	1° 13	0° 31	- 24° 6
Sunny Season . .	2·7	3 a. m.	- 0° 93	3 p. m.	+ 0° 85	1° 78	0° 57	- 8° 9
— — . . .	10	1 a. m.	- 0° 67	2 p. m.	+ 0° 66	1° 33	0° 41	- 5° 9
Equinoct. Months	2·7	10 p. m.	- 1° 43	4 a. m.	+ 1° 37	2° 80	0° 72	- 24° 1
— — . . .	10	1 a. m.	- 0° 59	1 p. m.	+ 0° 42	1° 01	0° 26	- 15° 8
Year . . . . .	1·6	10 a. m.	- 0° 28	1 p. m.	+ 0° 18	0° 46	0° 12	- 22° 3
— . . . . .	10	1 a. m.	- 0° 62	2 p. m.	+ 0° 52	1° 14	0° 35	- 15° 3

With the sky clear, we have, in all the dark months, the lowest temperature during the day, and the highest during the night. In the other months — September excluded — we have the ordinary diurnal period. With the sky overcast, the diurnal period with a minimum in the early morning hours and maximum after noon, is very well developed in all the months except January. The range is greatest in April, both with clear sky and with the sky overcast. In April, May and June, the range is greater with a clear sky than with the sky overcast. The most striking feature seems to me to be (Pl. IV. 1 cm. = 1°) the distinct diurnal period of the ordinary march in the winter and dark season, with the sky overcast and relatively higher temperatures. The inverted period with clear sky in the dark season seems to be due to the diurnal period of the wind's direction, as pointed out above (p. 472). The dark-season period, with its stronger, south-easterly winds, is hardly to be accounted for by the radiation from the sun or sky.

In order to study the relation between the diurnal period of the temperature of the air and the velocity of the wind, I have made computations similar to those worked out above (p. 299 to 303), and give the results in the following Tables.

Hour.	October 1893, 94, 95.		November 1893, 94, 95.		December 1893, 94, 95.		January 1894, 95, 96.	
	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5
2 a. m.	+ 0° 47	- 0° 03	+ 0° 46	- 0° 08	+ 0° 57	- 0° 34	+ 0° 42	- 0° 20
4	+ 0° 41	- 0° 09	+ 0° 54	- 0° 10	+ 0° 67	- 0° 53	+ 0° 58	- 0° 47
6	+ 0° 13	- 0° 20	+ 0° 39	+ 0° 10	+ 0° 38	- 0° 47	+ 0° 50	- 0° 24
8	- 0° 11	- 0° 13	+ 0° 19	+ 0° 05	+ 0° 09	- 0° 39	+ 0° 30	- 0° 14
10	- 0° 15	+ 0° 10	- 0° 04	- 0° 06	- 0° 05	- 0° 20	+ 0° 12	- 0° 20
Noon	- 0° 10	+ 0° 23	- 0° 25	- 0° 16	- 0° 02	- 0° 04	- 0° 05	- 0° 25
2 p. m.	+ 0° 01	+ 0° 28	- 0° 35	- 0° 33	- 0° 03	+ 0° 09	- 0° 24	- 0° 27
4	+ 0° 02	+ 0° 20	- 0° 35	- 0° 30	- 0° 24	+ 0° 28	- 0° 43	- 0° 12
6	- 0° 13	- 0° 01	- 0° 28	- 0° 06	- 0° 46	+ 0° 40	- 0° 51	+ 0° 23
8	- 0° 27	- 0° 12	- 0° 21	+ 0° 16	- 0° 46	+ 0° 47	- 0° 46	+ 0° 50
10	- 0° 28	- 0° 11	- 0° 13	+ 0° 42	- 0° 45	+ 0° 51	- 0° 29	+ 0° 67
Midnight	+ 0° 04	- 0° 06	+ 0° 10	+ 0° 35	- 0° 01	+ 0° 20	+ 0° 12	+ 0° 48
Mean tmp.	- 22° 42	- 18° 96	- 31° 20	- 24° 66	- 32° 35	- 31° 94	- 37° 72	- 32° 72

Hour.	February 1894, 95, 96.		March 1894, 95, 96.		April 1894, 95, 96.		May 1894, 95, 96.	
	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5
2 a. m.	+ 0° 42	- 0° 49	+ 0° 09	- 1° 13	- 1° 77	- 1° 18	- 1° 18	- 0° 75
4	+ 0° 33	- 0° 30	+ 0° 40	- 1° 47	- 1° 62	- 1° 08	- 1° 11	- 0° 95
6	+ 0° 09	+ 0° 16	+ 0° 25	- 0° 92	- 1° 02	- 0° 71	- 0° 66	- 0° 74
8	- 0° 11	+ 0° 43	+ 0° 13	- 0° 30	- 0° 10	- 0° 20	0° 00	- 0° 41
10	- 0° 24	+ 0° 35	+ 0° 16	+ 0° 13	+ 0° 82	+ 0° 37	+ 0° 60	- 0° 06
Noon	- 0° 31	+ 0° 26	+ 0° 32	+ 0° 42	+ 1° 49	+ 0° 79	+ 0° 97	+ 0° 28
2 p. m.	- 0° 33	+ 0° 30	+ 0° 40	+ 0° 58	+ 1° 75	+ 0° 98	+ 1° 10	+ 0° 61
4	- 0° 25	+ 0° 32	+ 0° 25	+ 0° 62	+ 1° 59	+ 0° 97	+ 0° 97	+ 0° 77
6	- 0° 09	+ 0° 11	- 0° 07	+ 0° 66	+ 0° 99	+ 0° 75	+ 0° 61	+ 0° 68
8	+ 0° 05	- 0° 23	- 0° 47	+ 0° 70	+ 0° 13	+ 0° 31	- 0° 07	+ 0° 45
10	+ 0° 17	- 0° 42	- 0° 82	+ 0° 66	- 0° 76	- 0° 22	- 0° 44	+ 0° 24
Midnight	+ 0° 33	- 0° 47	- 0° 60	+ 0° 02	- 1° 47	- 0° 79	- 0° 89	- 0° 17
Mean tmp.	- 39° 41	- 31° 18	- 32° 71	- 26° 56	- 25° 16	- 18° 44	- 12° 98	- 9° 62

Hour.	June 1894, 95, 96.		July 1894, 95, 96.		August 1894, 95.		September 1894, 95.	
	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5
2 a. m.	- 0° 76	- 0° 51	- 0° 35	- 0° 35	- 0° 57	- 0° 27	0° 00	- 0° 42
4	- 0° 67	- 0° 55	- 0° 23	- 0° 33	- 0° 43	- 0° 18	+ 0° 27	- 0° 19
6	- 0° 42	- 0° 34	- 0° 09	- 0° 17	- 0° 17	- 0° 06	+ 0° 21	+ 0° 03
8	- 0° 03	- 0° 09	+ 0° 10	- 0° 08	+ 0° 15	+ 0° 04	+ 0° 11	+ 0° 17
10	+ 0° 36	+ 0° 13	+ 0° 26	+ 0° 14	+ 0° 38	+ 0° 14	+ 0° 18	+ 0° 25
Noon	+ 0° 64	+ 0° 32	+ 0° 34	+ 0° 25	+ 0° 50	+ 0° 27	+ 0° 20	+ 0° 33
2	+ 0° 73	+ 0° 45	+ 0° 34	+ 0° 29	+ 0° 57	+ 0° 35	+ 0° 22	+ 0° 39
4	+ 0° 64	+ 0° 46	+ 0° 26	+ 0° 19	+ 0° 51	+ 0° 24	- 0° 03	+ 0° 36
6	+ 0° 43	+ 0° 32	+ 0° 06	+ 0° 18	+ 0° 24	+ 0° 03	- 0° 21	+ 0° 20
8	+ 0° 10	+ 0° 11	- 0° 10	+ 0° 07	- 0° 14	- 0° 12	- 0° 29	- 0° 03
10	- 0° 32	- 0° 03	- 0° 21	- 0° 06	- 0° 46	- 0° 18	- 0° 38	- 0° 54
Midnight	- 0° 66	- 0° 23	- 0° 35	- 0° 21	- 0° 62	- 0° 25	- 0° 34	- 0° 51
Mean tmp.	- 1° 87	- 1° 76	0° 25	- 0° 22	- 1° 15	- 2° 98	- 11° 87	- 6° 70
Hour.	Winter Dec., Jan., Febr.		Spring Mar., Apr., May.		Summer June, July, Aug.		Autumn Sept., Oct., Nov.	
	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5
2 a. m.	+ 0° 47	- 0° 35	- 0° 96	- 1° 02	- 0° 56	- 0° 38	+ 0° 31	- 0° 18
4	+ 0° 52	- 0° 44	- 0° 78	- 1° 16	- 0° 45	- 0° 36	+ 0° 41	- 0° 13
6	+ 0° 32	- 0° 19	- 0° 48	- 0° 79	- 0° 23	- 0° 19	+ 0° 24	- 0° 03
8	+ 0° 09	- 0° 04	0° 00	- 0° 30	+ 0° 07	- 0° 05	+ 0° 06	+ 0° 03
10	- 0° 06	- 0° 02	+ 0° 52	+ 0° 15	+ 0° 33	+ 0° 13	0° 00	+ 0° 09
Noon	- 0° 12	- 0° 01	+ 0° 92	+ 0° 50	+ 0° 49	+ 0° 28	- 0° 02	+ 0° 13
2 m. p.	- 0° 20	+ 0° 04	+ 1° 08	+ 0° 73	+ 0° 54	+ 0° 36	- 0° 04	+ 0° 11
4	- 0° 31	+ 0° 16	+ 0° 93	+ 0° 79	+ 0° 47	+ 0° 31	- 0° 12	+ 0° 08
6	- 0° 36	+ 0° 24	+ 0° 50	+ 0° 70	+ 0° 24	+ 0° 17	- 0° 21	+ 0° 04
8	- 0° 29	+ 0° 24	- 0° 10	+ 0° 49	- 0° 05	+ 0° 02	- 0° 26	0° 00
10	- 0° 19	+ 0° 25	- 0° 68	+ 0° 22	- 0° 33	- 0° 09	- 0° 26	- 0° 08
Midnight	+ 0° 14	+ 0° 07	- 0° 99	- 0° 31	- 0° 55	- 0° 23	- 0° 07	- 0° 08
Mean tmp.	- 36° 99	- 31° 94	- 23° 61	- 18° 21	- 0° 92	- 1° 65	- 21° 05	- 17° 04
Hour.	Dark Season		Sunny Season		Equinoctial Months		Year	
	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5
2 a. m.	+ 0° 47	- 0° 23	- 0° 93	- 0° 62	+ 0° 04	- 0° 77	- 0° 12	- 0° 54
4	+ 0° 51	- 0° 30	- 0° 81	- 0° 62	+ 0° 33	- 0° 83	- 0° 17	- 0° 58
6	+ 0° 30	- 0° 13	- 0° 47	- 0° 41	+ 0° 23	- 0° 45	+ 0° 04	- 0° 31
8	+ 0° 07	- 0° 04	+ 0° 02	- 0° 15	+ 0° 12	- 0° 07	+ 0° 09	- 0° 08
10	- 0° 07	0° 00	+ 0° 48	+ 0° 14	+ 0° 17	+ 0° 19	+ 0° 21	+ 0° 11
Noon	- 0° 14	+ 0° 01	+ 0° 79	+ 0° 38	+ 0° 30	+ 0° 37	+ 0° 34	+ 0° 25

Hour.	Dark Season		Sunny Season		Equinoctial Months		Year	
	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5
2 p. m.	- 0° 19	+ 0° 01	+ 0° 90	+ 0° 50	+ 0° 31	+ 0° 48	+ 0° 36	+ 0° 33
4	- 0° 25	+ 0° 08	+ 0° 79	+ 0° 52	+ 0° 11	+ 0° 49	+ 0° 24	+ 0° 36
6	- 0° 29	+ 0° 13	+ 0° 46	+ 0° 45	- 0° 14	+ 0° 42	+ 0° 01	+ 0° 34
8	- 0° 27	+ 0° 16	+ 0° 01	+ 0° 16	- 0° 39	+ 0° 33	- 0° 20	+ 0° 22
10	- 0° 20	+ 0° 21	- 0° 44	- 0° 06	- 0° 60	+ 0° 06	- 0° 39	+ 0° 07
Midnight	+ 0° 12	+ 0° 10	- 0° 80	- 0° 33	- 0° 47	- 0° 25	- 0° 36	- 0° 16
Mean tmp.	- 32° 62	- 27° 89	- 8° 18	- 6° 60	- 22° 29	- 16° 63	- 21° 05	- 17° 04

	Mean v	Minimum.		Maximum.		Range.	Mean ord.	Mean temp.
	m. p. s.	Hour.	Dev.	Hour.	Dev.			
January	3° 06	6 p. m.	- 0° 51	4 a. m.	+ 0° 58	1° 09	0° 33	- 37° 72
—	6° 30	4 a. m.	- 0° 47	10 p. m.	+ 0° 67	1° 14	0° 31	- 32° 72
February	3° 03	2 p. m.	- 0° 33	2 a. m.	+ 0° 42	0° 75	0° 23	- 39° 41
—	6° 90	2 a. m.	- 0° 49	8 a. m.	+ 0° 43	0° 92	0° 32	- 31° 18
March	3° 13	10 p. m.	- 0° 82	2 p. m.	+ 0° 40	1° 22	0° 33	- 32° 71
—	6° 03	4 a. m.	- 1° 47	8 p. m.	+ 0° 70	2° 17	0° 63	- 26° 56
April	2° 98	2 a. m.	- 1° 77	2 p. m.	+ 1° 75	3° 52	1° 12	- 25° 16
—	5° 95	2 a. m.	- 1° 18	3 p. m.	+ 0° 98	2° 16	0° 70	- 18° 44
May	3° 03	2 a. m.	- 1° 18	2 p. m.	+ 1° 10	2° 28	0° 72	- 12° 98
—	6° 30	4 a. m.	- 0° 95	4 p. m.	+ 0° 77	1° 72	0° 51	- 9° 62
June	3° 15	2 a. m.	- 0° 66	2 p. m.	+ 0° 73	1° 39	0° 48	- 1° 87
—	6° 49	3 a. m.	- 0° 57	3 p. m.	+ 0° 46	1° 03	0° 30	- 1° 76
July	3° 64	1 a. m.	- 0° 35	1 p. m.	+ 0° 34	0° 69	0° 22	0° 25
—	5° 87	3 a. m.	- 0° 35	2 p. m.	+ 0° 29	0° 64	0° 19	- 0° 22
August	3° 02	Midnight	- 0° 62	2 p. m.	+ 0° 57	1° 19	0° 40	- 0° 15
—	6° 67	1 a. m.	- 0° 27	2 p. m.	+ 0° 35	0° 62	0° 18	- 2° 98
Septbr.	3° 24	10 p. m.	- 0° 38	Noon	+ 0° 29	0° 67	0° 21	- 11° 87
—	5° 96	11 p. m.	- 0° 55	2 p. m.	+ 0° 39	0° 94	0° 29	- 6° 70
Octbr.	2° 93	9 p. m.	- 0° 28	3 a. m.	+ 0° 50	0° 78	0° 18	- 22° 42
—	6° 75	6 a. m.	- 0° 20	2 p. m.	+ 0° 28	0° 48	0° 13	- 18° 96
Novbr.	2° 85	3 p. m.	- 0° 35	4 a. m.	+ 0° 54	0° 89	0° 27	- 31° 20
—	6° 56	3 p. m.	- 0° 33	10 p. m.	+ 0° 42	0° 75	0° 18	- 24° 66
Decbr.	2° 79	7 p. m.	- 0° 46	3 a. m.	+ 0° 68	1° 14	0° 29	- 32° 35
—	6° 27	4 a. m.	- 0° 53	10 p. m.	+ 0° 51	1° 04	0° 33	- 31° 94



	Mean v	Minimum.		Maximum.		Range.	Mean ord.	Mean temp.
	m. p. s.	Hour.	Dev.	Hour.	Dev.			
Winter . . . . .	2° 69	6 p. m.	- 0° 36	3 a. m.	+ 0° 52	0° 88	0° 26	-36° 99
— . . . . .	6° 49	4 a. m.	- 0° 44	10 p. m.	+ 0° 25	0° 69	0° 17	-31° 94
Spring . . . . .	3° 05	1 a. m.	- 1° 00	2 p. m.	+ 1° 08	2° 08	0° 66	-23° 61
— . . . . .	6° 09	4 a. m.	- 1° 16	4 p. m.	+ 0° 79	1° 95	0° 60	-18° 21
Summer . . . . .	3° 27	1 a. m.	- 0° 56	2 p. m.	+ 0° 54	1° 10	0° 36	- 0° 92
— . . . . .	6° 34	1 a. m.	- 0° 39	2 p. m.	+ 0° 36	0° 75	0° 21	- 1° 65
Autumn . . . . .	3° 00	9 p. m.	- 0° 26	4 a. m.	+ 0° 41	0° 67	0° 21	-21° 83
— . . . . .	6° 42	2 a. m.	- 0° 18	Noon	+ 0° 13	0° 31	0° 08	-16° 77
Dark Season . . .	2° 93	6 p. m.	- 0° 29	3 a. m.	+ 0° 51	0° 80	0° 24	-32° 62
— — . . .	6° 56	4 a. m.	- 0° 30	10 p. m.	+ 0° 21	0° 51	0° 12	-27° 89
Sunny Season . .	3° 16	2 a. m.	- 0° 93	2 p. m.	+ 0° 90	1° 83	0° 58	- 8° 18
— — . .	6° 26	3 a. m.	- 0° 62	4 p. m.	+ 0° 52	1° 14	0° 39	- 6° 60
Equinoct. Months	3° 19	10 p. m.	- 0° 60	4 a. m.	+ 0° 33	0° 93	0° 27	-22° 29
— —	5° 98	3 a. m.	- 0° 83	3 p. m.	+ 0° 49	1° 32	0° 40	-16° 63
Year . . . . .	3° 10	11 p. m.	- 0° 40	1 p. m.	+ 0° 36	0° 76	0° 21	-21° 05
— . . . . .	6° 27	3 a. m.	- 0° 59	4 p. m.	+ 0° 36	0° 95	0° 28	-17° 04

We see from these Tables that the temperature in all months except July and August is lower with the weaker winds and higher with the stronger winds. The difference is greatest (8°2) in February, and least in December (0°4). With the *weaker winds* (Pl. V. 1 cm. = 1° C.) the temperature in winter, autumn and the dark season, has its minimum in the day and its maximum in the night, or the ordinary period is reversed. As already pointed out (p. 472), this reversal seems due to the prevalence of colder northerly winds during the day hours and milder southerly winds during the night hours. In spring, summer, the sunny season and the equinoctial months, we have the ordinary diurnal period. The range is greatest in April (1°12) and least in July (0°22).

With the *stronger winds* we generally have the ordinary period. In winter and the dark season the maximum occurs late in the afternoon, and the range is only from 0°17 to 0°12. The greatest range (0°70) is found in April.

The mean minima and maxima of the temperature in the different months stand thus (Tables, pp. 403–468 and Pl. III. 1 mm. = 1° C.):

	January.			February.			March.			April.		
	Min.	Max.	Range	Min.	Max.	Range	Min.	Max.	Range	Min.	Max.	Range
1894	−38° 94	−32° 34	6° 60	−37° 79	−31° 47	8° 32	−40° 65	−33° 45	7° 20	−25° 92	−17° 75	8° 17
95	−37° 49	−29° 93	7° 56	−40° 49	−33° 21	7° 28	−38° 12	−32° 23	5° 89	−32° 09	−25° 73	6° 36
96	−40° 46	−33° 47	6° 99	−38° 59	−30° 03	8° 56	−24° 68	−13° 96	10° 72	−22° 18	−14° 92	7° 26
Mean	−38° 96	−31° 91	7° 05	−39° 62	−31° 57	8° 05	−34° 48	−26° 55	7° 94	−26° 73	−19° 47	7° 26
	May.			June.			July.			August.		
	Min.	Max.	Range	Min.	Max.	Range	Min.	Max.	Range	Min.	Max.	Range
1894	−12° 76	− 7° 88	4° 88	− 3° 41	+ 0° 17	3° 58	− 0° 72	+ 1° 03	1° 75	− 2° 82	+ 0° 32	3° 14
95	−14° 80	−10° 01	4° 79	− 4° 19	− 0° 64	3° 55	− 1° 60	+ 0° 84	2° 44	− 4° 68	− 0° 71	3° 97
96	−13° 66	− 8° 15	5° 51	− 3° 46	− 0° 14	3° 32	− 0° 92	+ 1° 04	1° 96			
Mean	−13° 74	− 8° 68	5° 06	− 3° 69	− 0° 20	3° 43	− 1° 08	+ 0° 97	2° 05	− 3° 75	− 0° 20	3° 55
	September.			October.			November.			December.		
	Min.	Max.	Range	Min.	Max.	Range	Min.	Max.	Range	Min.	Max.	Range
1893				−24° 12	−17° 26	6° 86	−27° 72	−20° 46	7° 26	−32° 05	−25° 33	6° 72
94	−12° 18	− 5° 53	6° 65	−27° 44	−17° 97	9° 47	−34° 66	−27° 22	7° 44	−38° 07	−31° 61	6° 46
95	−12° 78	− 6° 90	5° 88	−24° 51	−17° 77	6° 74	−34° 15	−26° 69	7° 46	−35° 61	−29° 27	6° 34
Mean	−12° 48	− 6° 21	6° 27	−25° 36	−17° 67	7° 69	−32° 18	−24° 79	7° 39	−35° 24	−28° 74	6° 51

The *aperiodic diurnal range* of the temperature of the air has an annual period with maxima in February and October, and minima in July and December. The summer time has the smallest range, the most constant temperature. We find the greatest range in the winter half-year, particularly in February, and at the equinoxes. December has a secondary minimum. The smallest range occurs in July. The time about the equinoxes is the most unsteady as regards the diurnal temperature; the time about the solstices is steadier, that about the summer solstice being the steadiest. The aperiodic diurnal range is measured by from 2° to 8°, the periodic range from 0°·2 to 1°·7. (Pl. III. 1 mm. = 1° C.).

## THE ANNUAL PERIOD.

The following Table gives the mean temperature for each month during the drift of the Fram, taken from the Tables on pp. 403—468.

	January.	February.	March.	April.	May.	June.
1894	— 35°72	— 35°57	— 37°08	— 21°31	— 10°19	— 1°55
95	— 33° 71	— 37° 18	— 35° 01	— 28° 89	— 12° 31	— 2° 19
96	— 37° 33	— 34° 73	— 18° 89	— 18° 15	— 10° 56	— 1° 76
Mean	— 35° 59	— 35° 83	— 30° 33	— 22° 78	— 11° 02	— 1° 83
	July.	August.	September.	October.	November.	December.
1893				(— 20°81)	— 24°36	— 29°12
94	0°25	— 1°04	— 8°30	— 22° 34	— 30° 94	— 34° 98
95	— 0° 25	— 2° 48	— 9° 68	— 21° 18	— 30° 87	— 32° 60
96	0° 16					
Mean	+ 0° 05	— 1° 76	— 8° 99	— 21° 76	— 28° 72	— 32° 23

The Means in the Table are means for the month. Reducing them to the middle day of the month,<sup>1</sup> we obtain the following numbers (Pl. III. Mean monthly Temperature. 1 mm. = 1° C.).

January.	February.	March.	April.	May.	June.
— 35°72	— 36°07	— 30°25	— 22°61	— 10°91	— 1°53
July.	August.	September.	October.	November.	December.
+ 0°20	— 1°54	— 8°76	— 22°00	— 28°86	— 32°24

The mean for the year is — 19°19. Latitude 82°40', Longitude 89°11'.

Parabolic curves give

Mean Temperature of the coldest day — 36°68. February 2.

Mean Temperature of the warmest day + 0°20. July 15.

Annual Range . . . . . 36°88.<sup>2</sup>

The temperature is above 0° from June 6 to 24, or for 18 days.

<sup>1</sup> Hann. Lehrb. d. Met. p. 99.

<sup>2</sup> The above monthly means, treated by harmonic analysis, lead to the formula ( $m$  reckoned from the middle of January):

Taking the means for the 3 (or 2) years for each month, we obtain the following *Mean temperature for each day of the year.*

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-40.68	-26.68	-26.85	-20.56	-21.50	-3.74	-0.11	0.13	-0.73	-20.46	-26.82	-31.17
2	-38.52	-29.89	-29.89	-21.29	-19.10	-5.37	-0.46	0.66	-3.67	-20.74	-27.04	-32.29
3	-37.71	-35.75	-33.74	-24.15	-17.84	-4.42	-0.12	0.62	-2.16	-19.89	-30.55	-32.98
4	-36.05	-35.99	-36.18	-23.84	-16.17	-6.08	-0.12	0.75	-3.52	-16.52	-28.09	-32.76
5	-35.10	-39.64	-39.49	-26.34	-16.49	-4.95	-0.82	0.43	-4.91	-14.90	-27.35	-33.61
6	-35.10	-40.41	-36.31	-22.71	-17.57	-4.35	-0.67	0.53	-5.10	-13.57	-26.92	-33.37
7	-35.74	-42.93	-34.52	-24.34	-15.50	-4.83	0.14	-0.12	-6.91	-21.13	-24.01	-35.30
8	-35.40	-35.78	-31.41	-23.03	-13.76	-4.78	0.21	-0.30	-7.22	-20.47	-31.21	-37.47
9	-37.16	-36.74	-32.45	-22.33	-12.25	-4.41	-0.04	-0.67	-6.44	-21.78	-30.87	-36.78
10	-39.09	-36.84	-34.36	-23.28	-12.97	-1.83	0.21	-1.20	-5.30	-21.42	-30.04	-32.61
11	-37.40	-37.68	-33.46	-22.78	-15.42	-1.28	0.76	-1.58	-3.85	-18.95	-22.71	-28.25
12	-35.56	-38.24	-28.94	-25.69	-13.42	-1.74	0.85	-0.87	-4.46	-17.35	-25.06	-26.35
13	-37.26	-41.68	-26.50	-24.44	-12.89	-1.72	0.84	-0.81	-2.66	-17.57	-27.70	-31.77
14	-41.09	-39.41	-30.33	-24.36	-13.92	-0.48	1.08	-2.17	-4.41	-21.56	-31.59	-32.88
15	-43.79	-40.65	-26.00	-25.59	-14.72	-0.66	0.27	-2.24	-5.51	-20.18	-30.17	-27.41
16	-41.79	-42.76	-24.76	-23.94	-12.69	-0.77	0.48	-0.90	-5.41	-18.82	-24.82	-27.91
17	-38.59	-40.80	-28.97	-24.47	-10.52	-1.70	0.09	-1.45	-10.26	-17.23	-26.75	-32.34
18	-33.40	-41.84	-33.65	-22.70	-13.00	-0.75	0.44	-1.24	-10.48	-22.46	-27.90	-33.51
19	-29.68	-42.23	-33.87	-22.56	-12.44	-0.19	0.64	-1.05	-9.77	-23.26	-27.73	-33.19
20	-29.02	-38.78	-31.43	-23.55	-9.17	0.52	0.03	-1.25	-10.07	-22.71	-29.74	-33.04
21	-31.28	-29.25	-29.97	-22.62	-6.63	0.53	-0.26	-2.01	-13.04	-23.97	-28.53	-33.14
22	-30.51	-26.34	-29.07	-21.94	-4.95	-0.10	0.08	-2.92	-15.58	-25.44	-31.38	-32.35
23	-34.45	-33.15	-28.89	-23.10	-4.72	-0.19	0.41	-5.03	-16.42	-22.76	-33.91	-28.09
24	-36.12	-33.52	-31.14	-21.90	-4.63	-0.56	-0.58	-4.23	-18.24	-24.45	-30.02	-30.86
25	-39.26	-30.13	-32.10	-21.54	-3.79	-0.62	0.24	-4.58	-14.84	-22.57	-30.62	-33.29
26	-38.08	-26.33	-29.90	-22.55	-3.74	-0.17	-0.19	-4.91	-15.94	-25.31	-30.03	-32.86
27	-36.36	-28.79	-27.29	-20.02	-5.80	0.07	-0.09	-2.54	-13.26	-25.76	-28.03	-28.75
28	-32.66	-31.06	-28.21	-20.25	-3.99	0.22	-0.41	-4.30	-17.43	-23.06	-25.65	-28.73
29	-34.37	-33.98	-24.26	-21.96	-4.42	-0.20	-0.89	-3.94	-17.92	-21.24	-31.48	-31.24
30	-26.84		-22.23	-22.1 <sup>6</sup>	-4.57	0.07	-0.25	-4.47	-14.21	-24.05	-31.80	-35.97
31	-24.54		-23.90		-3.20		-0.41	-2.33		-28.40		-39.12

$$T_m = -19^{\circ}19 + 18^{\circ}715. \sin(267^{\circ}9'5 + m) + 2^{\circ}147. \sin(102^{\circ}1'8 + 2m)$$

which gives

Minimum - 35°94 January 25<sup>th</sup>.

Maximum + 1°60 July 15<sup>th</sup>.

Annual Range 37°54.

The curve computed from this formula apparently makes the epoch of the minimum too early, and does not correspond to the flatness of the real curve in the summer months. I therefore prefer the results given above in the text, as being in closer accordance with the results of observation.

From this Table the following *Five-day means* have been computed  
(Pl. III. 1 mm. = 1° C.).

1. Jan. 1-5	-37° 61	Jan. 3	37. June 30-July 4	-0° 15	July 2
2. - 6-10	-36° 50	- 8	38. July 5-9	-0° 24	- 7
3. - 11-15	-39° 02	- 13	39. - 10-14	0° 75	- 12
4. - 16-20	-34° 50	- 18	40. - 15-19	0° 38	- 17
5. - 21-25	-34° 32	- 23	41. - 20-24	-0° 06	- 22
6. - 26-30	-33° 66	- 28	42. - 25-29	-0° 27	- 27
7. - 31-Feb. 4	-30° 57	Feb. 2	43. - 30-Aug. 3	0° 15	Aug. 1
8. Feb. 5-9	-39° 10	- 7	44. Aug. 4-8	0° 26	- 6
9. - 10-14	-38° 77	- 12	45. - 9-13	-1° 03	- 11
10. - 15-19	-41° 66	- 17	46. - 14-18	-1° 60	- 16
11. - 20-24	-32° 20	- 22	47. - 19-23	-2° 45	- 21
12. - 25-March 1	-28° 63	- 27	48. - 24-28	-4° 11	- 26
13. March 2-6	-35° 12	March 4	49. - 29-Sept. 2	-3° 03	- 31
14. - 7-11	-33° 24	- 9	50. Sept. 3-7	-4° 52	Sept. 5
15. - 12-16	-27° 31	- 14	51. - 8-12	-5° 45	- 10
16. - 17-21	-31° 58	- 19	52. - 13-17	-5° 65	- 15
17. - 22-26	-30° 22	- 24	53. - 18-22	-11° 79	- 20
18. - 27-31	-25° 18	- 29	54. - 23-27	-15° 74	- 25
19. April 1-5	-23° 24	April 3	55. - 28-Oct. 2	-18° 15	- 30
20. - 6-10	-23° 14	- 8	56. Oct. 3-7	-17° 20	Oct. 5
21. - 11-15	-24° 57	- 13	57. - 8-12	-19° 99	- 10
22. - 16-20	-23° 44	- 18	58. - 13-17	-19° 07	- 15
23. - 21-25	-22° 22	- 23	59. - 18-22	-23° 57	- 20
24. - 26-30	-21° 39	- 28	60. - 23-27	-24° 17	- 25
25. May 1-5	-18° 22	May 3	61. - 28-Nov. 1	-24° 71	- 30
26. - 6-10	-14° 41	- 8	62. Nov. 2-6	-27° 99	Nov. 3
27. - 11-15	-14° 07	- 13	63. - 7-11	-27° 77	- 9
28. - 16-20	-11° 56	- 18	64. - 12-16	-27° 87	- 14
29. - 21-25	-4° 94	- 23	65. - 17-21	-28° 22	- 19
30. - 26-30	-4° 50	- 28	66. - 22-26	-31° 19	- 24
31. - 31-June 4	-4° 56	June 2	67. - 27-Dec. 1	-29° 63	- 29
32. June 5-9	-4° 66	- 7	68. Dec. 2-6	-33° 00	Dec. 4
33. - 10-14	-1° 41	- 12	69. - 7-11	-34° 08	- 9
34. - 15-19	-0° 81	- 17	70. - 12-16	-29° 26	- 14
35. - 20-24	0° 04	- 22	71. - 17-21	-33° 04	- 19
36. - 25-29	-0° 14	- 27	72. - 22-26	-31° 49	- 24
			73. - 27-31	-32° 76	- 29

The lowest temperatures observed with minimum-thermometer (Tables pp. 403—468) were (Pl. III. 1 mm. = 1° C.)

	January.	February.	March.	April.	May.	June.
1894	— 42° 4	— 50° 0	— 52° 0	— 38° 3	— 21° 2	— 10° 2
95	— 50° 3	— 46° 3	— 42° 1	— 38° 4	— 26° 3	— 10° 9
96	— 50° 1	— 47° 5	— 43° 3	— 34° 3	— 28° 4	— 7° 0
Mean	— 47° 6	— 47° 9	— 45° 8	— 37° 0	— 25° 3	— 9° 4
	July.	August.	September.	October.	November.	December.
1893				(— 28° 6)	— 34° 4	— 38° 2
94	— 3° 3	— 7° 8	— 23° 7	— 36° 5	— 42° 4	— 44° 5
95	— 3° 4	— 8° 2	— 26° 0	— 30° 2	— 44° 1	— 45° 6
96	— 2° 6					
Mean	— 3° 1	— 8° 0	— 24° 9	— 33° 7	— 40° 3	— 42° 8

The highest temperatures observed with maximum-thermometer (Tables pp. 403—468) were (Pl. III)

	January.	February.	March.	April.	May.	June.
1894	— 24° 9	— 9° 3	— 15° 8	— 10° 0	— 0° 1	+ 3° 0
95	— 11° 7	— 20° 3	— 21° 4	— 19° 0	— 2° 4	+ 1° 5
96	— 16° 5	— 5° 4	— 3° 0	— 3° 6	+ 2° 2	+ 4° 0
Mean	— 17° 7	— 11° 7	— 13° 4	— 10° 9	— 0° 1	+ 2° 8
	July.	August.	September.	October.	November.	December.
1893				(— 13° 0)	— 5° 0	— 16° 2
94	+ 3° 5	+ 2° 9	+ 0° 1	— 11° 2	— 10° 2	— 21° 1
95	+ 2° 2	+ 1° 9	+ 1° 0	— 10° 5	— 11° 9	— 19° 1
96	+ 2° 7					
Mean	+ 2° 8	+ 2° 4	+ 0° 6	— 10° 9	— 9° 0	— 18° 8

Days with a temperature below  $-40^{\circ}$ .

November.	December.	January.	February.	March.
Days	Days	Days	Days	Days
1893 0	1893 0	1894 3. 1	1894 3.- 8. 6	1894 5.-20. 16
1894 6.- 7. 2	1894 8.-11. 4	— 10.-12. 3	— 10.-19. 10	— 25.-26. 2
— 14.-16. 3	— 13.-14. 2	— 14.-16. 3	— 23.-24. 2	
	— 17.-18. 2	— 27.-29. 3		1895 2. 1
1895 20.-23. 4	— 21.-22. 2		1895 2.- 3. 2	— 19.-23. 5
	— 30.-31. 2	1895 1. 1	— 7. 1	— 26.-30. 5
		— 14.-18. 5	— 9.-10. 2	
	1895 2. 1	— 23.-27. 5	— 13.-22. 10	1896 4.- 6. 3
	— 8. 1		— 25.-26. 2	
	— 29.-31. 3	1896 1.-18. 18		
		— 27. 1	1896 4.- 9. 6	
			— 11.-20. 10	

Temperature below  $-40^{\circ}$ .

	November.	December.	January.	February.	March.
Longest period . . . .	4 days	4 days	18 days	10 days	16 days
Mean period . . . . .	2.25 —	1.9 —	4.4 —	5.0 —	5.3 —
Mean number of days	3 —	6 —	13 —	17 —	11 —

Mean number of days with a temperature below  $-40^{\circ}$  for the whole year, 50.

Days with a temperature above  $0^{\circ}$ .

May.	June.	July.	August.	September.
Days	Days	Days	Days	Days
1894 0	1894 8. 1	1894 1.-31. 31	1894 1.-22. 22	1894 17. 1
1895 0	— 10.-25. 16			
1896 21. 1	— 27.-30. 4	1895 1. 1	1895 1.- 8. 8	1895 1.- 4. 4
— 23.-26. 4		— 3.- 4. 2	— 16. 1	— 13. 1
— 28. 1	1895 3. 1	— 6.- 8. 3	— 31. 1	
	— 10.-12. 3	— 10.-31. 22		
	— 15.-19. 5			
	— 21.-23. 3	1896 1.-31. 31		
	— 25.-30. 6			
	1896 13.-14. 2			
	— 18.-28. 11			

Temperature above  $0^{\circ}$ .

	May.	June.	July.	August.	September.
Longest period . . . .	4 days	16 days	31 days	23 days	4 days
Mean period . . . . .	1·2 —	5·2 —	15·0 —	8·0 —	2·0 —
Mean number of days	2 —	17 —	30 —	16 —	3 —

Mean number of days with a temperature above  $0^{\circ}$  for the whole year, 68.

The absolute lowest temperature observed is  $-52^{\circ}0$  the 12<sup>th</sup> March 1894

— — highest — — —  $+3^{\circ}5$  — 15<sup>th</sup> July 1894

Difference  $55^{\circ}5$ .

#### THE INTERDIURNAL VARIABILITY OF THE TEMPERATURE OF THE AIR.

Taking the difference between the diurnal mean temperature of one day (Tables, pp. 403—468) and the next, and then the mean of the differences of rising and of falling temperatures for each month, we obtain the numbers in the first two columns in the Table below. The third column gives the weighted mean of the two first columns. The monthly numbers of cases or days with rising and with falling diurnal temperatures are in the 4<sup>th</sup> and 5<sup>th</sup> columns.

	1	2	3	4	5
	Temperature rising	Temperature falling	Mean of 1 and 2	Temperature rising	Temperature falling
	+	—	±	Days	Days
January 1894—96 . .	3·61	2·91	3·27	16	15
February — — . .	5·06	4·49	4·74	12·3	15·7
March — — . .	3·85	4·10	3·97	16	15
April — — . .	2·64	2·51	2·56	15	15
May — — . .	2·10	1·97	2·03	19	12
June — — . .	1·06	0·98	1·02	15·3	14·7
July — — . .	0·59	0·52	0·56	14	17
August 1894—95 . .	0·78	1·06	0·91	16·5	14·5
September — — . .	2·02	2·68	2·35	15	15
October 1893—95 . .	3·14	3·97	3·55	16·4	14·6
November — — . .	3·89	3·95	3·91	15·7	14·3
December — — . .	3·62	3·45	3·53	15·3	15·7
Mean and Sum . . . .	2·70	2·71	2·70	186·5	178·5



The columns 1, 2 and 3 show a very decided annual period (Pl. III. 1 mm. = 1° C.). The interdiurnal variability is greatest in the winter time; the maximum lies in February, and is lowest in July. The numbers form a very regular curve. The mean rising for the year is a little lower than the falling. The time during which the temperature is rising, is longer than its time of falling; it rises more slowly than it falls. The means for the 3<sup>rd</sup> column are

Winter	Spring	Summer	Autumn
± 3°85	± 2°83	± 0°83	± 3°27

The next Table gives the mean number of cases (days) in which the mean diurnal temperature has changed from one day to the next from 0° to 0°9, from 1 to 1°9, etc.

	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	15-16	16-17	17-18	21-22
Jan. . .	8.7	4.7	3.3	3.3	2.7	3.3	1.0	1.7	1.3	0.3	—	0.7	—	—	—	—	—	—
Febr. . .	5.7	3.7	3.7	2.7	2.7	1.7	1.3	1.3	1.3	1.0	1.0	1.0	—	0.3	—	0.3	0.3	0.3
Mar. . .	5.3	6.0	3.7	3.7	2.0	2.7	1.3	2.0	2.0	1.0	0.3	1.0	—	—	—	—	—	—
Apr. . .	7.0	7.3	4.7	3.3	3.7	2.3	0.7	0.3	0.3	—	—	0.3	—	—	—	—	—	—
May . .	11.3	8.3	4.0	2.7	1.3	2.3	0.7	—	—	0.3	—	—	—	—	—	—	—	—
June . .	18.0	8.0	2.3	1.0	0.7	—	—	—	—	—	—	—	—	—	—	—	—	—
July . .	26.0	5.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aug. . .	22.0	4.5	2.5	1.5	0.5	—	—	—	—	—	—	—	—	—	—	—	—	—
Sept. . .	8.5	5.5	8.0	3.5	2.0	0.5	1.0	0.5	—	0.5	—	—	—	—	—	—	—	—
Oct. . .	4.8	6.0	7.2	2.4	2.0	2.3	2.4	2.0	0.8	0.8	—	—	0.4	—	—	—	—	—
Nov. . .	4.7	5.3	4.7	4.0	3.0	2.3	1.3	2.0	0.3	1.0	—	0.3	0.3	—	0.3	0.3	—	—
Dec. . .	4.7	5.7	4.3	6.0	2.3	3.3	1.0	1.0	1.0	1.0	0.3	—	0.3	—	—	—	—	—
Per month.																		
Winter	6.4	4.4	3.8	4.0	2.6	2.8	1.1	1.3	1.2	0.8	0.4	0.6	0.1	0.1	—	0.1	0.1	0.1
Spring .	7.9	7.2	4.1	3.2	2.3	2.4	0.9	0.8	0.8	0.4	0.1	0.4	—	—	—	—	—	—
Summer	22.0	5.8	1.6	0.8	0.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Autumn	6.0	5.6	6.6	3.3	2.7	1.3	1.6	1.5	0.4	0.8	—	0.1	0.2	—	0.1	0.1	—	—
Year . .	10.6	5.8	4.0	3.8	2.0	1.8	0.9	0.7	0.6	0.5	0.1	0.3	0.1	0.02	0.02	0.05	0.02	0.02

The smallest interdiurnal variations are of the greatest frequency. In winter the variation reaches 21°. This was the case from the 20<sup>th</sup> to the 21<sup>st</sup> February, 1896, when the mean diurnal temperature rose 21°8, from —40°8

to  $-19^{\circ}0$ , and the registered temperature from  $-43^{\circ}0$  to  $-5^{\circ}4$ , a total rise of  $37^{\circ}6$ . The wind was southerly and the barometer falling from 767 mm. on the 20<sup>th</sup> to 724 mm. — the lowest reading observed during the whole expedition — on the 22<sup>nd</sup>. In summer the variation does not exceed  $5^{\circ}$ , that in July not going above  $2^{\circ}$ . The column  $0^{\circ}-1^{\circ}$  shows a very regular annual period with a decided maximum in July. The summer is the quiet time as regards the temperature of the air.

The following Table shows, for each month, the mean number of cases in which the mean daily temperature was rising (+) or falling (—) continually during 1, 2, 3, 4, 5 or 6 days, or the frequency of temperature-periods of different lengths. When a period comprises the end of one month and the beginning of the next, it has been reckoned to the former month.

The Table also gives the mean duration of a temperature-period in days, separately for rising (+) and falling (—) temperature.

Number of periods comprising.								
		1 day	2 days	3 days	4 days	5 days	6 days	Mean Length
January	+	3.0	2.0	1.0	0.7	0	0.5	2.2 days
1894-96	—	2.3	2.3	1.0	0.7	0.3		2.1
								} 4.3
February	+	3.0	3.3	0.7	0.3			2.0
1894-96	—	2.0	2.3	2.3	0	0	0.3	2.2
								} 4.2
March	+	4.0	1.3	1.0	0.7	0.7		2.0
1894-96	—	4.0	1.7	1.0	0.3	0.7		2.0
								} 4.0
April	+	2.3	1.7	1.7	0.3	0.3		2.1
1894-96	—	2.7	3.3	1.0	0	0	0.3	2.0
								} 4.1
May	+	2.0	1.7	1.7	0.7	0.7	0.3	2.6
1894-96	—	5.0	1.0	1.7				1.6
								} 4.2
June	+	4.0	2.3	1.7	0.3			1.8
1894-96	—	5.7	1.0	1.3	0.3	0.3		1.7
								} 3.5
July	+	4.3	3.3	0.3	0	0.3		1.7
1894-96	—	4.0	3.0	1.0	1.0			1.9
								} 3.6

		1 day	2 days	3 days	4 days	5 days	6 days	Mean Length	Sum
August	+	4.5	3.0	1.5	0.5			1.8 days	} 3.4
1894-95	-	5.5	2.5	0	1.0			1.6	
September	+	7.0	1.0	0.5	0.5	0.5		1.6	} 3.2
1894-95	-	4.5	3.5	0	1.0			1.6	
October	+	2.3	2.0	1.3	0.3	0.3		2.1	} 4.0
1893-95	-	2.7	2.3	1.7				1.9	
November	+	3.3	2.7	0	1.0	0.7	0.3	2.0	} 4.1
1893-95	-	3.3	1.3	1.3	0.7	0.5		2.1	
December	+	1.3	2.3	2.0	0	0.7		2.5	} 4.7
1893-95	-	2.7	1.3	1.3	1.3			2.2	
Per month.									
Winter	+	2.3	2.4	1.1	0.3	0.2	0.1	2.12	} 4.31
	-	2.3	2.0	1.5	0.7	0.5	0.1	2.19	
Spring	+	2.8	1.6	1.4	0.6	0.6	0.1	2.26	} 4.00
	-	3.9	2.0	1.2	0.1	0.2	0.1	1.83	
Summer	+	4.2	3.0	1.1	0.3	0.2		1.74	} 3.49
	-	5.1	2.2	0.8	0.8	0.1		1.75	
Autumn	+	3.9	2.0	0.6	0.6	0.5	0.1	1.91	} 3.86
	-	2.9	3.2	1.0	0.8	0.2	0.2	1.85	
Year	+	3.3	2.2	1.1	0.4	0.4	0.1	2.00	} 3.93
	-	3.6	2.4	1.1	0.6	0.3	0.1	1.93	

The most frequent period is in general that of one day, of which we have from 3 to 4 per mean month. The frequency of this period is greater in the summer and autumn than in the spring and winter. The frequency of the other periods decreases with the length of the period, at first, up to the period of 4 days, very evenly, then more slowly to the longest period of 6 days, the frequency or probability of which scarcely reaches 0.1 per month.

The mean length of a period of ascending temperature is 2.00 days, and of a period of descending temperatures 1.93 days. The temperature rises at a slower rate than that at which it falls. We have seen that in the year it rises on 186.5 days and falls on 178.5 days. The lengths of the ascending and descending temperature-periods have an annual period. The periods are shorter than the annual mean both of rise and fall, from May or June to September, and longer in the other part of the year.

The whole length of a period comprising the rise and the fall of the temperature, is on an average 3.93 days. It is shorter from June to September, and longer from October to May, being longest in December, 4.7 days, and shortest in August, 3.1 days.

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#### THERMAL WIND-ROSES.

The numbers in the following Tables have been computed in the same manner as the numbers of the dynamic and baric wind-roses.

## THERMAL WIND-ROSES.

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
1893. October . .	-20°1	-20°3	-21°2	-22°7	-21°9	-21°6	-21°5	-21°2	-19°1	-15°5	-16°3	-13°8	-9°6	-15°8	-18°7	-19°1
November .	-27°9	-28°9	-29°7	-28°6	-26°0	-25°9	-25°4	-24°3	-20°8	-18°3	-20°9	-23°8	-22°2	-23°1	-22°7	-26°5
December .	-28°6	-29°4	-27°4	-27°3	-28°3	-30°3	-30°2	-31°5	-28°4	-29°7	-32°3	-31°8	-24°0	-19°9	-22°1	-22°1
1894. January . .	-35°3	-35°5	-37°3	-38°3	-33°6	-34°4	-33°2	-33°5	-36°7	-36°9	-38°1	-38°1	-38°7	-37°8	-38°0	-38°2
February . .	-41°6	-42°2	-42°2	-40°0	-33°0	-38°2	-35°4	-31°7	-32°4	-29°1	-30°7	-37°0	-23°7	-30°2	-40°2	-39°3
March . . . .	-42°8	-42°5	-43°2	-42°2	-33°7	-25°6	-28°3	-30°5	-34°6	-31°7	-35°8	-39°8	-38°7	-38°5	-40°1	-41°7
April . . . . .	-25°0	-21°7	-18°4	-20°2	-19°8	-24°0	-20°5	-20°4	-20°1	-24°7	-30°2	-33°2	-32°6	-33°5	-34°1	0
May . . . . .	-3°5	-7°9	-8°5	-10°8	-9°4	-9°3	-9°9	-9°4	-1°1	-8°9	-9°2	-9°0	-8°1	-7°6	0	-2°9
June . . . . .	-3°5	-4°6	-3°5	0°3	0°8	0°2	-1°2	-1°0	0°1	0°1	0°5	0°0	-2°8	-2°2	-1°0	-2°1
July . . . . .	-0°6	-0°1	0°3	0°7	0°0	0°1	1°7	1°1	1°1	1°5	0°7	0°4	0°1	0°2	-0°1	-2°1
August . . . .	-1°4	-0°6	-2°2	-3°9	-3°4	-2°0	-0°5	0°4	-0°6	0°6	0°4	1°0	-0°7	-1°0	-2°8	-2°9
September . .	-9°6	-7°5	-6°3	-5°8	-8°3	-12°9	-8°2	-4°4	-3°3	-4°7	-5°2	-11°3	-14°6	-11°0	-10°3	-10°6
October . . . .	-26°8	-25°8	-22°3	-20°4	-21°3	-19°3	-21°8	-25°3	-26°6	-21°8	-25°0	-24°0	-22°1	-27°0	-23°9	-22°9
November .	-31°5	-32°6	-31°3	-30°4	-32°8	-35°9	-36°5	-33°9	-26°4	-26°8	-25°0	-19°8	-22°4	-29°0	-30°3	-35°4
December .	-34°6	-39°9	-35°4	-38°0	-37°7	-32°7	-32°5	-31°2	-30°7	-41°9	-33°8	-31°0	-32°1	-34°0	-33°5	-36°1
1895. January . .	-39°4	-38°7	-38°6	-37°9	-35°2	-36°8	-27°5	-26°2	-28°9	-33°0	-36°5	-36°4	-37°8	-38°1	-36°7	-41°9
February . .	-33°2	-35°0	-39°4	-38°4	-40°0	-38°8	-40°0	-37°8	-38°2	-35°2	-32°8	-28°8	-31°6	-33°4	-31°4	-32°1
March . . . .	-39°0	-39°0	-36°9	-37°7	-36°5	-35°7	-32°9	-33°2	-33°0	-36°2	-34°8	-32°9	-32°1	-32°6	-39°5	0
April . . . . .	-27°6	-27°5	-27°2	-28°8	-28°6	-28°5	-27°6	-28°2	-29°4	-28°4	-29°0	-29°4	-29°8	-29°1	-29°1	-28°8
May . . . . .	-14°3	-12°3	-13°8	-12°2	-14°9	-12°7	-11°7	-14°0	-12°0	-7°4	-7°2	-9°3	-8°5	-8°2	-10°6	-10°5
June . . . . .	-1°2	-0°8	-0°8	-0°6	-1°7	-2°4	-3°5	-1°6	-1°8	-3°1	-3°3	-2°8	-3°4	-1°6	-1°9	-2°5
July . . . . .	0°1	-0°4	0°0	-0°5	-0°5	0°3	-0°1	-0°2	-0°2	-0°4	-0°3	-0°3	-0°2	0°3	1°1	0°2
August . . . .	-27°	-3°6	0	-5°0	-4°1	-2°1	-2°3	-2°2	-1°0	-2°2	-2°2	-2°4	-2°4	-2°3	-1°9	-2°0
September . .	-15°1	-19°3	-10°1	-10°0	-14°0	-7°5	-3°1	-6°7	-10°5	-8°8	-7°4	-7°6	-10°6	-14°9	-13°5	-12°5
October . . . .	-22°1	-25°1	-22°8	-21°8	-24°3	-21°0	-21°1	-21°7	-17°3	-18°4	-26°1	-23°7	-17°7	-18°1	-20°8	-19°4
November . .	-26°9	-30°0	-31°9	-31°8	-32°8	-30°5	-30°9	-28°1	-26°9	-30°0	-33°4	-33°2	-33°9	-38°1	-35°9	-36°8
December .	-33°5	-35°8	-34°4	-31°5	-32°9	-36°6	-30°8	-31°1	-27°7	-30°5	-38°5	-30°9	-26°5	-31°9	-31°7	-25°4
1896. January . .	-42°9	-39°2	-37°8	-37°2	-41°5	-36°9	-27°1	-23°0	-32°1	-44°3	-44°3	-29°4	-41°4	-41°0	-43°3	-42°9
February . .	-37°8	-35°2	-30°1	-32°4	-34°7	-29°1	-27°7	-29°7	-28°9	-31°7	-32°7	-36°2	-39°2	-38°7	-39°2	-42°2
March . . . .	-35°9	-19°5	-24°3	-24°3	-15°9	-18°0	-22°2	-16°7	-13°9	-11°5	-12°8	-21°3	-31°7	-38°7	-30°9	-30°1
April . . . . .	-20°9	-24°1	-21°6	-21°6	-15°9	-12°1	-10°6	-12°2	-14°2	-14°3	-17°8	-25°3	-26°7	-29°3	-27°2	-24°3
May . . . . .	-8°3	-17°7	-18°1	-12°6	-10°7	-7°3	-5°9	-3°9	-2°7	-3°4	-5°2	-12°3	-14°8	-13°2	-12°3	-9°7
June . . . . .	-3°6	-4°1	-2°1	-1°3	-1°4	-0°9	-0°6	-0°2	0°2	0°8	2°1	0°5	-1°9	-2°9	-3°6	-2°8
July . . . . .	0°1	-0°3	0°2	0°1	0°6	0°4	0°5	0°6	0°3	0°3	0°0	-0°3	-0°9	-0°1	-0°4	0°5
August . . . .	0°0	1°7	1°1	1°4	0°8	3°1	5°3	1°9	3°0	0°4	0°3	2°2	1°4	0°5	1°6	0°2

## THERMAL WIND-ROSES.

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
Oct. 1893, 94, 95	-20°3	-22°9	-22°1	-21°7	-21°2	-20°6	-21°3	-22°1	-21°1	-20°4	-19°8	-16°8	-14°6	-14°4	-14°5	-16°1
Nov. - - -	-30°4	-30°1	-31°2	-35°7	-38°4	-34°9	-30°8	-28°3	-25°8	-25°1	-24°7	-23°4	-24°3	-29°0	-33°0	-32°5
Dec. - - -	-32°3	-33°0	-33°3	-34°2	-34°3	-34°9	-31°8	-30°9	-30°6	-32°7	-34°1	-31°7	-28°3	-28°3	-28°2	-29°8
Jan. 1894, 95, 96	-41°6	-39°5	-38°0	-38°2	-38°5	-34°6	-29°9	-29°0	-31°3	-34°2	-36°2	-36°8	-37°6	-38°8	-40°7	-42°1
Feb. - - -	-39°0	-37°5	-36°5	-36°7	-37°4	-36°5	-30°3	-33°9	-33°8	-32°8	-32°8	-34°3	-35°4	-36°0	-38°1	-39°8
Mar. - - -	-38°7	-33°6	-31°2	-33°2	-33°7	-31°6	-28°6	-25°9	-22°3	-21°1	-22°1	-28°0	-35°2	-37°2	-38°0	-39°3
Apr. - - -	-25°2	-24°8	-24°0	-22°4	-21°0	-20°1	-20°1	-19°9	-20°6	-22°7	-26°3	-28°0	-29°3	-29°3	-28°2	-26°2
May - - -	-7°9	-11°0	-12°8	-12°2	-10°8	-9°4	-8°1	-6°1	-3°3	-2°5	-3°6	-5°8	-7°1	-7°5	-7°5	-7°0
June - - -	-2°6	-2°4	-1°8	-1°3	-1°3	-1°5	-1°7	-1°0	-0°3	-0°6	-0°9	-1°3	-2°0	-2°2	-2°1	-2°4
July - - -	-0°1	-0°1	0°0	0°2	0°1	0°4	0°6	0°6	0°5	0°3	0°1	0°1	0°1	0°1	0°0	0°1
Aug. - - -	-1°4	-0°7	-1°5	-2°8	-3°6	-1°5	-0°3	0°0	0°0	-0°1	-0°4	0°7	-1°0	-1°3	-1°7	-1°9
Sept. - - -	-10°9	-9°7	-9°0	-7°9	-9°2	-8°9	-6°7	-5°7	-6°2	-6°7	-7°3	-8°9	-10°9	-12°0	-11°3	-11°1
Winter . . . . .	-37°8	-36°4	-35°7	-35°9	-35°6	-34°1	-32°2	-31°3	-31°8	-33°0	-34°1	-34°7	-35°3	-36°5	-37°9	-38°6
Spring . . . . .	-20°3	-21°3	-22°1	-22°7	-22°1	-21°6	-19°7	-17°8	-16°8	-16°1	-16°2	-17°5	-19°1	-19°8	-19°7	-19°6
Summer . . . . .	-1°5	-1°3	-1°2	-1°4	-1°4	-1°1	-0°5	-0°1	0°3	-0°1	0°3	0°6	-0°8	-1°1	-1°3	-1°5
Autumn . . . . .	-21°3	-21°4	-21°5	-23°0	-24°5	-24°0	-22°5	-20°9	-19°4	-18°0	-16°3	-16°1	-15°9	-16°9	-18°4	-20°1
Dark Season . . .	-32°7	-32°2	-31°7	-32°8	-33°2	-31°3	-29°5	-28°9	-29°0	-29°7	-29°4	-28°0	-27°6	-28°1	-29°6	-31°8
Sunny " . . .	-8°0	-10°3	-11°5	-10°0	-8°5	-7°7	-6°8	-6°0	-5°3	-4°4	-3°6	-3°1	-3°4	-4°3	-5°2	-6°2
Equinoct. Months	-20°9	-20°0	-19°1	-21°8	-26°4	-25°7	-21°6	-18°0	-17°1	-16°2	-15°0	-17°9	-21°4	-22°6	-21°3	-21°3
Mean Temperature with Calms. (Pl. VI. 1 mm. = 1° C.).																
	January.	February.	March.	April.	May.	June.		July.	August.	Sept.	October.	Nov.	Dec.			
1894 . . . . .	-39°5	-45°4	-34°0	-29°1	-7°9	-2°5	1893 . . . . .	°	°	°	-20°3	-30°1	-31°2			
95 . . . . .	-41°2	-42°8	-	-23°6	-9°4	-	94 . . . . .	+0°6	+0°4	-5°7	-26°1	-40°6	-			
96 . . . . .	-39°9	-41°9	-16°0	-	-	-	95 . . . . .	-	-1°0	-9°8	-18°1	-	-34°0			
Weight. Mean	-40°0	-44°3	-29°5	-25°4	-8°4	-2°5	Weight. Mean	+0°6	+0°4	-6°9	-22°5	-30°8	-31°7			

	Coldest Wind.		Warmest Wind.		Diff.
January . . . . .	NNW	-42°1	SSE	-29°0	13°1
February . . . . .	NNW	-39°8	SE	-30°3	9°5
March . . . . .	NNW	-39°3	SSW	-21°1	18°2
April . . . . .	W, WNW	-29°3	SSE	-19°9	9°4
May . . . . .	NE	-12°8	SSW	- 2°5	10°3
June . . . . .	N	- 2°6	S	- 0°3	2°3
July . . . . .	NNE	- 0°1	SE, SSE	+ 0°6	0°7
August . . . . .	E	- 3°6	S	+ 0°04	3°6
September . . . . .	WSW	-12°0	SSE	- 5°7	6°3
October . . . . .	NNE	-22°9	WNW	-14°4	8°5
November . . . . .	E	-38°4, NW -33°0	WSW -23°4, NNE -30°1		15°0
December . . . . .	E	-34°3, SW -34°1	NW -28°2, S -30°6		6°1
Winter . . . . .	NNW	-38°6	SSE	-31°3	7°3
Spring . . . . .	ENE	-22°7	SSW	-16°1	6°6
Summer . . . . .	N <sup>b</sup> W	- 1°5	S	+ 0°3	1°8
Autumn . . . . .	E	-24°5	W	-15°9	8°6
Dark Season . . .	E	-33°2 N -32°7	W -27°6 SSE -28°9		5°6
Sunny „ . . .	NE	-11°5	WSW - 3°1		8°4
Equinoct. Months	E	-26°4 WNW -22°6	SW -15°0 NE -19°1		11°4

As a rule, the coldest winds come from the north to east quadrant, and the warmest winds from the opposite quadrant, south to west. The difference between the warmest and the coldest wind is least in the summer months, being only 0°7 in July, and greatest in March and November (Pl. VI. 1 mm. = 1° C.).

The southerly winds being the warmest, and the northerly winds the coldest in the winter, goes far to show that the 82<sup>nd</sup> parallel of latitude is hardly influenced by the Siberian “cold pole”.

The slight variation in the temperature of the different winds in summer seems to indicate only a slight thermic gradient polewards during that season.

A comparison of the mean temperature during calms with the mean lowest temperature, the mean temperature of the coldest wind, and the mean temperature of the month, gives the following results.

	1. Mean temp. during calms.	2. Mean lowest temp.	Diff. 1—2.	3. Mean temp. coldest wind.	Diff. 1—3.	4. Mean temp. of the month.	Diff. 1—4.
January . . . . .	−40°0	−47°6	+ 7°6	−42°1	+2°1	−35°6	−4°4
February . . . . .	−44°3	−47°9	+ 3°6	−39°7	−4°6	−35°8	−8°5
March . . . . .	−29°5	−45°8	+16°3	−39°3	+9°8	−30°3	+0°8
April . . . . .	−25°4	−37°0	+11°6	−29°3	+3°9	−22°8	−2°6
May . . . . .	− 8°4	−25°3	+16°9	−12°8	+4°4	−11°0	+2°6
June . . . . .	− 2°5	− 9°4	+ 6°9	− 2°6	+0°1	− 1°8	−0°7
July . . . . .	+ 0°6	− 3°1	+ 3°7	− 0°1	+0°7	+ 0°1	+0°5
August . . . . .	+ 0°4	− 8°0	+ 8°4	− 3°6	+4°0	− 1°8	+2°2
September . . . . .	− 6°9	−24°9	+18°0	−12°0	+5°1	− 9°0	+2°1
October . . . . .	−22°5	−33°7	+11°2	−22°9	+0°4	−21°8	−0°7
November . . . . .	−30°8	−40°3	+ 9°5	−38°4	+7°6	−28°7	−2°1
December . . . . .	−31°7	−42°8	+11°1	−34°3	+2°6	−32°2	+0°5

The column Diff. 1—2 shows that the temperature during calms is always higher than the mean lowest temperature (p. 486), and the column Diff. 1—3 shows that the coldest wind (p. 495) has a lower temperature than the calms in all months except February. The column Diff. 1—4 shows that the temperature with calms is sometimes lower and sometimes higher than the mean temperature (p. 483) of the respective months. The mean result obtained is that the calms are colder than the month in winter (−4°1) and autumn (−0°4), and warmer in spring (+0°3) and summer (+0°7), colder in the dark season (−3°1), warmer in the sunny season (+0°4), and warmer in the equinoctial months (+1°5). We have seen (p. 481) that the temperature is lower with the weaker winds and higher with the stronger winds, except in July and August.

We have seen, (p. 472) that the temperature of the air in the dark season is on an average a little lower during the day than during the night. We have seen (p. 278) that at the same time, the north component of the wind's frequency is greater than the southern component during the day, and less during the night. The mean direction of the wind (p. 276) is S 51° E, with which there is a corresponding temperature of −29°2. When the wind backs towards the north, the temperature falls, when it veers towards the south, the temperature rises. With ESE it is −31°3, with SE −29°5, with



SSE  $-28^{\circ}9$ . The diurnal variation of the temperature is in perfect accordance with the diurnal change of the direction of the wind in the dark season.

In the *crow's nest* of the Fram, 32 metres above sea-level, observations of the temperature of the air were taken simultaneously with the temperature in the thermometer-screen below. These are given in the following Table. The observations were made about noon. The Table shows the difference between the temperature at the height of the crow's nest and that in the screen, the wind's direction and velocity in metres per second, and the amount of cloud at the same time.

The observations made in the crow's nest are perhaps not so reliable as those made in the screen; and the result of their comparison is scarcely capable of being utilised for a correct determination of the variation of the temperature with altitude. Meanwhile the great excess of negative differences tends to show that in the colder months an inversion of temperature is a phenomenon of very common occurrence.

Day.			Temperature of the Air.			Wind.		Cloud.
			Crow's nest.	Screen.	Diff.			
1893	November	8.	$-30^{\circ}8$	$-31^{\circ}2$	$-0^{\circ}4$	N	2	0
-	-	9.	$-20^{\circ}0$	$-21^{\circ}2$	$-1^{\circ}2$	SE	6	0
-	-	10.	$-18^{\circ}7$	$-20^{\circ}0$	$-1^{\circ}3$	SW	4	0
-	-	11.	$-15^{\circ}4$	$-15^{\circ}2$	$+0^{\circ}2$	S	4	10
-	-	12.	$-18^{\circ}6$	$-18^{\circ}6$	$0^{\circ}0$	SSW	10	10
-	-	13.	$-21^{\circ}5$	$-23^{\circ}1$	$-1^{\circ}6$	W	3	0
-	-	14.	$-24^{\circ}3$	$-26^{\circ}1$	$-1^{\circ}8$	SW	4	0
-	-	15.	$-19^{\circ}9$	$-20^{\circ}8$	$-0^{\circ}9$	S	9	0
-	-	16.	$-17^{\circ}3$	$-17^{\circ}7$	$-0^{\circ}4$	SE	8	10
-	-	17.	$-21^{\circ}8$	$-23^{\circ}0$	$-1^{\circ}2$	S	3	0
-	-	19.	$-29^{\circ}0$	$-30^{\circ}0$	$-1^{\circ}0$	N	2	0
-	-	20.	$-26^{\circ}0$	$-26^{\circ}1$	$-0^{\circ}1$	N	4	10
-	-	21.	$-28^{\circ}4$	$-30^{\circ}0$	$-1^{\circ}6$	SW	4	0
-	-	22.	$-28^{\circ}4$	$-29^{\circ}3$	$-0^{\circ}9$	S	5	0
-	-	23.	$-27^{\circ}7$	$-29^{\circ}3$	$-1^{\circ}6$	Calm	0	0
-	-	24.	$-25^{\circ}9$	$-26^{\circ}4$	$-0^{\circ}5$	SE	5	0
-	-	27.	$-28^{\circ}3$	$-30^{\circ}5$	$-2^{\circ}2$	Calm	0	$10^{\circ}$
-	-	29.	$-28^{\circ}5$	$-30^{\circ}0$	$-1^{\circ}5$	S	2	0
-	December	1.	$-17^{\circ}0$	$-17^{\circ}1$	$-0^{\circ}1$	S	2	10
-	-	4.	$-30^{\circ}1$	$-30^{\circ}8$	$-0^{\circ}7$	SE	4	0
-	-	8.	$-35^{\circ}2$	$-34^{\circ}7$	$+0^{\circ}5$	S	3	0

Day.			Temperature of the Air.			Wind.		Cloud.
			Crow's nest.	Screen.	Diff.			
1893	December	14.	-37°9	-35°9	+2°0	N	1	0
-	-	18.	-24°0	-24°3	-0°3	Calm	0	3
-	-	19.	-27°5	-26°0	+1°5	SE	3	0
-	-	23.	-30°6	-31°0	-0°4	SE	2	10
-	-	27.	-31°0	-30°7	+0°3	W	5	10°
-	-	30.	-27°9	-28°6	-0°7	NE	4	0
1894	January	2.	-37°6	-38°4	-0°8	WSW	3	0
-	-	5.	-37°5	-37°8	-0°3	NW	3	0
-	-	9.	-38°0	-39°2	-1°2	E	3	0
-	-	13.	-33°2	-33°9	-0°7	S	3	0
-	-	17.	-36°5	-37°2	-0°7	SE	2	10°
-	-	20.	-28°1	-28°1	0°0	ESE	6	10°
-	-	24.	-33°5	-33°8	-0°3	S	4	0
-	February	9.	-28°5	-28°2	+0°3	SW	2	10
-	-	16.	-42°4	-44°3	-1°9	N	2	0
-	-	22.	-19°1	-18°9	+0°2	SSW	3	10
-	March	1.	-19°4	-19°5	-0°1	S	2	10
-	-	8.	-39°2	-39°9	-0°7	W	3	10
-	April	3.	-31°3	-35°0	-3°7	WNW	4	0
-	-	12.	-17°5	-18°2	-0°7	NE	5	10
-	-	25.	-15°3	-15°9	-0°6	SSE	5	10
-	May	2.	-13°9	-13°7	+0°2	ESE	3	0
-	-	4.	-13°0	-12°7	+0°3	SE	4	6°
-	-	8.	-11°2	-9°5	+1°7	WSW	4	9
-	-	19.	-7°4	-6°9	+0°5	SSE	6	10
-	-	21.	-7°2	-6°1	+1°1	E	6	0

## THE TENSION OF AQUEOUS VAPOUR.

## THE DIURNAL PERIOD.

The following Table gives the computed mean values of the vapour-tension for each observation-hour and for each month of the drift of the Fram, and the means for the month.

From October, 1893, to March, 1894, we have observations for every fourth hour. From April, 1894, to July, 1896, the observations of the hair hygrometer and the corresponding observations of the temperature of the air have made it possible to give determinations of the tension of vapour for the night and morning hours not contained in the Tables of observation, and thus to give complete results for every alternate hour of the day.

mm.

	2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.	Monthly mean
1893 October . . . . .		1·05		1·05		1·04		1·09		0·95		0·98	1·03
— November . . . . .		0·67		0·60		0·56		0·56		0·57		0·62	0·60
— December . . . . .		0·42		0·40		0·40		0·41		0·41		0·40	0·41
1894 January . . . . .		0·22		0·21		0·22		0·20		0·21		0·22	0·21
— February . . . . .		0·31		0·33		0·33		0·31		0·28		0·30	0·31
— March . . . . .		0·23		0·22		0·23		0·23		0·22		0·23	0·23
— April . . . . .	0·57	0·63	0·63	0·70	0·77	0·80	0·82	0·80	0·77	0·70	0·67	0·60	0·71
— May . . . . .	1·57	1·72	1·57	1·72	1·69	1·84	1·87	2·00	1·90	1·96	1·78	1·86	1·79
— June . . . . .	3·45	3·54	3·48	3·62	3·58	3·72	3·68	3·78	3·66	3·67	3·57	3·60	3·61
— July . . . . .	4·27	4·24	4·30	4·42	4·41	4·44	4·49	4·48	4·40	4·36	4·32	4·23	4·36
— August . . . . .	3·82	3·87	3·88	4·03	3·98	3·99	3·99	4·02	3·92	3·89	3·87	3·80	3·92
— September . . . . .	2·03	2·19	2·12	2·18	2·22	2·36	2·37	2·33	2·31	2·28	2·16	2·18	2·23
— October . . . . .	0·60	0·60	0·57	0·60	0·65	0·67	0·66	0·64	0·63	0·61	0·60	0·61	0·62
— November . . . . .	0·24	0·33	0·25	0·31	0·30	0·31	0·31	0·32	0·33	0·34	0·32	0·33	0·30
— December . . . . .	0·17	0·17	0·17	0·20	0·20	0·21	0·21	0·20	0·19	0·19	0·20	0·17	0·19

	2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.	Monthly mean
1895 January . . . . .	0.18	0.18	0.20	0.29	0.25	0.25	0.24	0.24	0.25	0.25	0.25	0.27	0.24
— February . . . . .	0.14	0.14	0.13	0.16	0.18	0.17	0.18	0.17	0.16	0.16	0.16	0.14	0.16
— March . . . . .	0.18	0.18	0.18	0.20	0.19	0.20	0.21	0.21	0.21	0.20	0.20	0.18	0.20
— April . . . . .	0.30	0.30	0.30	0.35	0.41	0.39	0.41	0.40	0.40	0.38	0.35	0.31	0.36
— May . . . . .	1.40	1.42	1.43	1.56	1.60	1.62	1.62	1.62	1.59	1.58	1.56	1.49	1.54
— June . . . . .	3.39	3.34	3.35	3.52	3.59	3.63	3.70	3.65	3.67	3.57	3.54	3.45	3.53
— July . . . . .	4.16	4.24	4.13	4.21	4.24	4.22	4.25	4.20	4.22	4.22	4.16	4.19	4.20
— August . . . . .	3.40	3.40	3.42	3.49	3.53	3.59	3.63	3.58	3.53	3.51	3.50	3.39	3.50
— September . . . . .	1.98	1.97	1.98	2.23	2.18	2.17	2.23	2.17	2.15	2.17	2.16	1.87	2.11
— October . . . . .	0.67	0.66	0.64	0.70	0.67	0.65	0.69	0.70	0.69	0.69	0.70	0.57	0.67
— November . . . . .	0.31	0.31	0.31	0.35	0.35	0.34	0.32	0.31	0.31	0.31	0.35	0.31	0.32
— December . . . . .	0.25	0.29	0.25	0.28	0.28	0.28	0.29	0.29	0.29	0.28	0.28	0.24	0.28
1896 January . . . . .	0.15	0.16	0.15	0.25	0.20	0.24	0.23	0.23	0.25	0.26	0.25	0.17	0.21
— February . . . . .	0.23	0.23	0.23	0.23	0.26	0.26	0.28	0.30	0.31	0.33	0.33	0.23	0.27
— March . . . . .	0.88	0.88	0.93	1.12	1.13	1.09	1.13	1.10	1.13	1.16	1.11	0.90	1.05
— April . . . . .	0.82	0.82	0.85	1.07	1.11	1.09	1.11	1.12	1.09	1.02	1.01	0.78	0.99
— May . . . . .	1.60	1.59	1.64	1.99	2.07	2.08	2.13	2.12	2.08	2.03	2.07	1.72	1.93
— June . . . . .	3.51	3.51	3.55	3.70	3.67	3.70	3.73	3.73	3.75	3.70	3.72	3.57	3.65
— July . . . . .	4.28	4.33	4.33	4.33	4.41	4.45	4.43	4.47	4.44	4.39	4.35	4.27	4.37

The following Table gives for each month of the drift of the Fram, the weighted and smoothed means for 3 or 2 years (August and September) of the bi-hourly deviations from the monthly mean in *hundredths* of a millimetre. From this Table are computed the means for the four meteorological seasons, for the dark and sunny seasons, the equinoctial months, and for the whole year.

0.01 mm.

	2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.
January 1894-96 . . . . .	- 3.4	- 4.2	- 2.1	0.8	1.4	1.2	1.0	0.9	1.7	2.2	1.6	- 0.7
February — — . . . . .	- 2.5	- 2.6	- 2.2	- 1.0	0.2	0.8	1.2	1.5	1.5	1.6	0.8	- 1.4
March — — . . . . .	- 7.4	- 7.1	- 4.1	0.5	2.4	2.4	2.8	3.0	3.4	3.5	0.5	- 4.7
April — — . . . . .	- 11.5	- 10.3	- 6.4	1.0	6.7	8.3	9.0	8.7	6.2	2.4	- 2.9	- 9.2
May — — . . . . .	- 17.5	- 19.8	- 14.7	- 4.2	4.1	8.5	12.3	13.6	11.8	9.0	3.5	- 7.7
June — — . . . . .	- 12.1	- 13.8	- 9.8	- 2.2	3.4	7.4	10.6	11.3	9.2	5.3	0.5	- 6.2
July — — . . . . .	- 6.7	- 5.3	- 3.6	0.2	3.9	6.1	7.3	6.9	4.3	0.9	- 3.3	- 6.7
August 1894-95 . . . . .	- 9.8	- 5.3	- 3.6	2.1	5.5	7.6	9.3	7.4	2.8	- 0.8	- 4.4	- 7.5
September — — . . . . .	- 14.1	- 11.6	- 7.3	- 0.3	5.0	8.8	10.9	8.8	6.4	4.0	- 2.8	- 11.6
October 1893-95 . . . . .	- 1.4	- 1.1	- 1.0	0.5	2.1	2.5	2.3	1.8	- 0.2	- 1.7	- 1.4	- 1.6
November — — . . . . .	- 0.1	0.5	0.1	0.5	0.9	0.2	- 0.2	- 0.3	0.2	0.9	1.5	0.6
December — — . . . . .	- 1.7	- 1.0	- 1.0	- 0.4	0.3	0.6	0.9	0.8	0.4	0.2	- 0.5	- 1.8

	2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.
December, January, February .	- 2.5	- 2.6	- 1.8	- 0.2	0.6	0.9	1.0	1.1	1.2	1.3	0.6	- 1.3
March, April, May . . . . .	- 12.1	- 12.4	- 8.4	- 0.9	4.4	6.4	8.0	8.4	7.1	5.0	2.3	- 7.2
June, July, August . . . . .	- 9.5	- 8.1	- 5.7	0.0	4.3	7.0	9.1	8.5	5.6	1.8	- 2.4	- 6.8
September, October, November.	- 5.2	- 4.1	- 2.7	0.2	2.7	3.8	4.3	3.4	2.1	1.1	- 0.9	- 4.2
Dark Season . . . . .	- 1.8	- 1.7	- 1.2	0.1	1.0	1.1	1.0	0.9	0.7	0.6	0.4	- 1.0
Sunny Season . . . . .	- 11.5	- 10.9	- 7.6	- 0.6	4.7	7.6	9.7	9.6	6.9	3.4	- 1.3	- 7.5
Equinoctial Months . . . . .	- 10.8	- 9.4	- 5.7	0.1	3.7	5.6	6.8	5.9	4.9	3.8	- 1.2	- 8.2
Year . . . . .	- 7.3	- 6.8	- 4.7	- 2.2	3.0	4.5	5.6	5.4	4.0	2.3	1.1	- 4.8

From these Tables and the diagrams on Pl. VI. (1 cm. = 0.1 mm.) are taken out the epochs and the values of the diurnal Minima and Maxima, and the diurnal Range as shown in the following Tables.

	Minimum.		Maximum.		Range. mm.
	Hour.	Dev.	Hour.	Dev.	
January . . . . .	3.5 a. m.	- 4.2	8 p. m.	+ 2.2	0.064
February . . . . .	3 a. m.	- 2.6	5 p. m.	1.5	0.041
March . . . . .	2.5 a. m.	- 7.4	5 p. m.	3.5	0.109
April . . . . .	2 a. m.	- 11.5	2 p. m.	9.0	0.205
May . . . . .	4 a. m.	- 19.8	4 p. m.	13.6	0.334
June . . . . .	3 a. m.	- 13.8	3.5 p. m.	11.3	0.251
July . . . . .	1 a. m.	- 6.7	2 p. m.	7.3	0.140
August . . . . .	2 a. m.	- 9.8	2 p. m.	9.3	0.191
September . . . . .	2 a. m.	- 14.1	2 p. m.	10.9	0.250
October . . . . .	9 p. m.	- 1.7	Noon	2.5	0.042
November . . . . .	3 p. m.	- 0.3	10 p. m.	1.5	0.018
December . . . . .	1 a. m.	- 1.8	2.5 p. m.	0.9	0.027
Winter . . . . .	3 a. m.	- 2.6	8 p. m.	1.3	0.039
Spring . . . . .	3 a. m.	- 12.4	3.5 p. m.	8.4	0.208
Summer . . . . .	2 a. m.	- 9.5	2 p. m.	9.1	0.186
Autumn . . . . .	2 a. m.	- 5.2	2 p. m.	4.3	0.095
Dark Season . . . . .	2.5 a. m.	- 1.9	Noon	1.1	0.030
Sunny Season . . . . .	2 a. m.	- 11.5	3 p. m.	9.7	0.212
Equinoct. Months . . . . .	1.5 a. m.	- 10.8	2 p. m.	6.8	0.176
Year . . . . .	2.5 a. m.	- 7.5	3 p. m.	5.6	0.131

The diurnal period comes out very distinctly in all months except November, with a minimum in the early morning hours and a maximum some hours after noon. The range is greatest in May and has a second maximum in September. It is least in the dark season, only a few hundredths of a millimetre.

### THE ANNUAL PERIOD.

The following Table gives the mean tension of vapour for each month, in mm.

	January	February	March	April	May	June
1894	0.21	0.31	0.23	0.71	1.79	3.61
95	0.24	0.16	0.20	0.36	1.58	3.53
96	0.21	0.27	1.05	0.99	1.93	3.65
Mean	0.22	0.25	0.49	0.69	1.77	3.60
	July	August	September	October	November	December
1893				1.03	0.60	0.41
94	4.36	3.92	2.23	0.62	0.31	0.19
95	4.20	3.50	2.10	0.67	0.32	0.28
96	4.37					
Mean	4.31	3.71	2.17	0.77	0.41	0.29

Annual Mean 1.56 mm.

„ Minimum 0.22 — January 21<sup>st</sup>

„ Maximum 4.31 — July 20<sup>th</sup>

„ Range 4.09 —

The march of the values of the tension of vapour is very regular from month to month. Pl. VI. (1 cm. = 1 mm.)

The numbers in the following Tables have been computed in the same manner as the numbers of the dynamic, baric, and thermal Wind-Roses.

Weighted and smoothed means. mm.

	Jan. '94-96	Feb. '94-96	March '94-96	Apr. '94-96	May '94-96	June '94-96	July '94-96	Aug. '94-96	Sept. '94-95	Oct. '93-95	Nov. '93-95	Dec. '93-95
N	0.12	0.16	0.24	0.51	1.99	3.39	4.25	3.78	1.79	0.65	0.34	0.30
NNE	0.14	0.18	0.42	0.56	1.76	3.51	4.37	3.99	2.07	0.59	0.35	0.27
NE	0.16	0.20	0.46	0.70	1.74	3.71	4.44	3.75	2.32	0.62	0.31	0.27
ENE	0.16	0.17	0.33	0.87	1.73	3.83	4.43	3.37	2.38	0.68	0.30	0.24
E	0.18	0.17	0.29	0.93	1.77	3.73	4.42	3.42	2.18	0.74	0.28	0.23
ESE	0.24	0.22	0.36	0.95	1.84	3.69	4.48	3.78	2.29	0.75	0.28	0.27
SE	0.32	0.30	0.49	0.98	1.91	3.68	4.49	4.19	2.70	0.68	0.33	0.32
SSE	0.34	0.35	0.73	0.91	2.05	3.89	4.50	4.25	2.94	0.62	0.41	0.35
S	0.30	0.35	0.87	0.82	2.54	4.05	4.51	4.19	2.87	0.69	0.49	0.35
SSW	0.26	0.33	0.95	0.72	2.85	3.93	4.45	4.16	2.70	0.79	0.53	0.30
SW	0.26	0.29	0.92	0.51	2.42	3.83	4.36	4.09	2.49	0.87	0.57	0.25
WSW	0.22	0.25	0.54	0.41	1.85	3.75	4.23	4.05	2.20	1.07	0.64	0.29
W	0.16	0.26	0.26	0.33	1.66	3.54	4.22	4.43	1.82	1.13	0.60	0.37
WNW	0.14	0.26	0.19	0.32	1.64	3.45	4.23	4.61	1.65	1.04	0.40	0.41
NW	0.13	0.20	0.19	0.36	1.77	3.46	4.26	4.10	1.69	0.79	0.25	0.41
NNW	0.12	0.16	0.17	0.43	2.03	3.41	4.23	3.66	1.48	0.74	0.27	0.36
Calm	0.12	0.10	0.66	0.51	1.87	3.37	4.19	4.29	2.41	0.66	0.30	0.34
<hr/>												
	Winter		Spring	Summer	Autumn	Dark S.		Sunny S.	Equin. M.			
<hr/>												
N	0.19		1.02	3.77	0.86	0.31		2.70	1.26			
NNE	0.21		1.07	3.87	0.96	0.32		2.44	1.37			
NE	0.21		1.07	3.93	1.02	0.33		2.32	1.47			
ENE	0.20		1.07	3.85	0.98	0.33		2.36	1.25			
E	0.21		1.09	3.77	0.88	0.33		2.45	0.85			
ESE	0.25		1.12	3.92	0.85	0.37		2.58	0.87			
SE	0.31		1.14	4.10	0.92	0.39		2.83	1.21			
SSE	0.33		1.15	4.23	1.05	0.41		3.04	1.46			
S	0.33		1.16	4.26	1.18	0.42		3.22	1.47			
SSW	0.30		1.19	4.21	1.26	0.42		3.43	1.53			
SW	0.27		1.17	4.14	1.32	0.46		3.49	1.65			
WSW	0.25		1.01	4.09	1.35	0.53		3.56	1.48			
W	0.24		0.86	4.10	1.29	0.53		3.61	1.17			
WNW	0.22		0.83	4.08	1.12	0.46		3.54	1.06			
NW	0.20		0.90	3.96	0.95	0.36		3.26	1.18			
NNW	0.18		0.96	3.80	0.85	0.31		2.96	1.05			
Calm	0.19		0.92	3.83	0.88	0.33		3.05	1.59			

As a rule the southerly to westerly winds bring most vapour into the atmosphere, and the northerly winds less. March, June, August and September exhibit a smaller maximum with north-easterly winds. Pl. VI. (1 cm. = 1 mm.)

	Dir.	Minimum		Dir.	Maximum		Range
		Tens.	mm.		Tens.	mm.	
Winter . . . . .	N and NNW	0·18		SSE	0·33; S	0·33	0·17
Spring . . . . .	WNW	0·83		SSW	1·19		0·44
Summer . . . . .	N and E	3·77		S	4·26; NE	3·93	0·49
Autumn . . . . .	ESE	0·85; N	0·86	WSW	1·35; NE	1·02	0·50
Dark Season . .	N	0·31; NNW	0·31	W	0·53; WSW	0·53	0·22
Sunny Season .	NE	2·32		W	3·61		1·29
Equinoct. Month	E	0·85; NNW	1·05	SW	1·65; NE	1·47	0·80

The vapour-tension with *calms*, for each month, is generally of the same amount as the mean value, and shows an analogous annual range. Its maximum falls in July and August, the maximum of the monthly tension in July. Pl. VI. (1 mm. = 1 mm.)

The tension of vapour with *calms* is less than the mean tension with winds in each of the four meteorological seasons. It is greater than the mean tension with wind in the sunny season and in the equinoctial months, but the difference is inconsiderable.



## THE RELATIVE HUMIDITY.

### THE DIURNAL PERIOD.

The following Table gives the mean computed values of the relative humidity for each observation-hour and for each month of the drift of the Fram, and the means for each month.

From October, 1893, to March, 1894, we have observations for every fourth hour, from April, 1894, to July 19<sup>th</sup>, 1896, for every two hours, and from July 20<sup>th</sup> to August 19<sup>th</sup>, 1896, for every fourth hour.

	2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.	Mean
1893 October . . . . .		83·7		84·6		84·2		83·9		83·3		84·6	84·1
— November . . . . .		83·8		84·1		84·1		84·1		84·4		84·9	84·2
— December . . . . .		89·6		89·2		89·5		89·2		88·8		88·8	89·2
1894 January . . . . .		90·8		90·5		90·4		90·3		90·5		90·6	90·5
— February . . . . .		91·8		91·8		91·7		92·0		91·6		91·0	91·7
— March . . . . .		80·0		80·0		79·8		79·5		79·9		80·0	79·9
— April . . . . .	84·6	84·5	84·0	83·9	84·2	82·3	81·6	81·6	82·1	83·5	83·2	84·0	83·3
— May . . . . .	82·7	82·5	80·5	79·9	79·5	79·6	80·6	81·0	81·9	82·6	83·7	84·2	81·6
— June . . . . .	89·6	89·9	87·6	87·6	85·6	85·2	85·4	86·0	86·8	87·5	89·1	89·7	87·5
— July . . . . .	93·5	93·6	93·6	93·6	92·0	92·2	92·0	93·5	93·4	93·6	93·9	93·6	93·2
— August . . . . .	93·2	93·2	92·1	91·7	90·9	89·7	90·7	90·6	90·8	92·0	93·1	93·4	91·8
— September . . . . .	87·0	87·4	87·0	86·3	85·6	86·2	86·3	85·8	85·6	86·9	86·1	87·4	86·5
— October . . . . .	77·2	76·8	76·7	77·0	77·1	76·9	77·2	76·5	76·4	75·9	76·1	76·2	76·7
— November . . . . .	72·7	72·8	72·9	72·9	72·6	72·5	72·8	72·7	72·9	72·8	72·8	72·9	72·8
— December . . . . .	72·6	72·6	72·8	72·9	73·0	73·0	72·3	72·4	72·5	72·4	72·5	72·3	72·6

		2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.	Mean
1895	January . . . . .	71·6	71·4	71·7	72·0	71·5	71·5	71·4	71·4	71·6	71·7	71·7	71·6	71·6
—	February . . . . .	73·9	74·1	74·1	74·3	74·2	74·1	74·2	74·0	74·0	74·4	74·4	74·2	74·2
—	March . . . . .	76·0	75·9	75·7	76·0	75·8	75·9	76·1	76·1	76·1	76·1	76·2	76·1	76·0
—	April . . . . .	81·3	81·3	81·0	81·4	81·1	81·2	81·7	81·9	81·7	81·7	81·5	81·5	81·4
—	May . . . . .	85·3	84·7	83·8	83·9	83·4	83·6	83·8	83·7	84·0	84·3	84·9	85·2	84·2
—	June . . . . .	91·6	90·0	88·8	89·0	89·2	88·6	88·8	88·5	89·6	89·7	90·7	90·6	89·6
—	July . . . . .	95·3	91·7	93·1	93·0	93·7	93·5	92·3	91·6	92·4	93·7	94·4	95·2	93·6
—	August . . . . .	91·9	91·6	91·2	91·1	91·3	91·0	90·0	90·0	91·2	92·3	92·4	92·5	91·4
—	September . . . . .	88·5	88·0	87·9	88·6	87·5	87·5	87·9	87·2	87·5	88·2	88·4	88·3	88·0
—	October . . . . .	75·7	75·6	75·5	75·1	74·5	74·5	75·2	75·6	75·4	75·6	76·1	76·3	75·4
—	November . . . . .	83·7	83·3	83·1	83·2	82·9	83·3	83·4	82·9	83·0	83·2	83·5	83·7	83·3
—	December . . . . .	80·2	80·3	80·2	80·2	80·0	79·9	80·2	80·2	80·1	80·1	80·2	80·1	80·1
1896	January . . . . .	81·6	81·8	81·9	81·9	81·7	81·7	81·7	81·6	81·6	81·9	82·3	82·5	81·9
—	February . . . . .	90·2	90·3	90·3	90·3	89·8	89·5	90·2	90·0	90·1	90·0	90·1	90·2	90·1
—	March . . . . .	88·7	88·6	89·1	89·0	87·8	87·9	87·9	87·7	87·8	87·7	88·1	88·1	88·2
—	April . . . . .	79·9	80·4	80·3	79·8	79·3	78·9	78·4	78·7	78·9	78·7	79·2	79·1	79·3
—	May . . . . .	84·3	84·1	83·3	82·0	80·9	81·2	81·9	82·1	81·8	82·4	83·3	84·2	82·6
—	June . . . . .	91·5	91·6	91·3	90·6	89·1	88·5	87·7	89·1	89·0	90·1	92·4	92·5	90·3
—	July . . . . .	97·3	97·0	96·1	96·2	96·5	97·3	95·8	95·2	96·5	97·0	97·2	97·3	96·6

The following Table gives for each month of the drift of the Fram the weighted and smoothed means for 3 or 2 years of the bi-hourly deviations from the monthly mean in *tenths of per cent.*

From this Table are computed the means for the meteorological seasons, for the Dark Season, the Sunny Season, the Equinoctial Months, and the whole year.

0·1 per cent.

		2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.
January	1894—96 . . . . .	0·7	1·0	1·5	1·1	— 1·0	— 2·1	— 1·5	— 1·1	— 0·5	0·1	0·4	0·6
February	— » — . . . . .	— 0·8	0·3	0·8	0·6	— 0·9	— 1·6	— 0·5	— 0·1	— 0·4	0·0	— 0·2	— 1·2
March	— » — . . . . .	1·5	1·9	2·5	1·8	— 0·8	— 1·8	— 1·7	— 2·1	— 1·8	— 1·0	— 0·1	0·8
April	— » — . . . . .	5·3	6·3	4·9	3·4	0·6	— 4·0	— 6·5	— 5·9	— 3·8	— 1·3	0·3	2·4
May	— » — . . . . .	13·3	7·4	— 1·1	— 8·8	— 13·2	— 12·3	— 8·2	— 5·0	— 1·8	3·8	10·9	14·8
June	— » — . . . . .	16·8	11·5	3·8	— 3·0	— 10·3	— 16·0	— 16·6	— 12·6	— 6·6	0·6	9·3	15·8
July	— » — . . . . .	8·3	4·9	0·1	— 2·5	— 2·8	— 4·4	— 8·9	— 9·9	— 4·2	2·3	6·5	8·5
August	1894—95 . . . . .	10·1	6·5	1·8	— 2·1	— 6·1	— 10·6	— 12·6	— 11·1	— 4·9	4·1	10·5	12·0
September	— » — . . . . .	5·1	4·0	2·6	— 0·3	— 4·0	— 4·1	— 3·6	— 5·9	— 4·6	— 0·3	2·3	4·3
October	1893—95 . . . . .	2·4	0·7	0·6	0·6	— 1·1	— 1·4	— 0·2	— 0·4	— 2·2	— 3·0	— 0·3	2·7
November	— » — . . . . .	1·4	— 0·6	— 0·7	— 0·9	— 1·7	— 1·3	— 0·8	— 1·3	— 0·9	0·5	1·7	2·9
December	— » — . . . . .	0·1	1·0	1·6	1·4	1·5	1·1	0·0	— 0·5	— 0·9	— 1·3	— 1·3	— 1·3

	2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.
Winter . . . . .	0·0	0·8	1·3	1·0	-0·1	- 0·9	- 0·7	- 0·6	-0·6	-0·4	-0·4	- 0·6
Spring . . . . .	6·7	5·2	2·1	1·2	-4·5	- 6·0	- 5·5	- 4·3	-2·5	-0·5	3·7	6·0
Summer . . . . .	11·7	7·6	1·9	-2·5	-6·4	-10·3	-12·7	-11·2	-5·2	2·3	8·8	12·1
Autumn . . . . .	3·0	1·4	0·8	-0·2	-2·3	- 2·3	- 1·5	- 2·5	-2·6	-0·9	1·2	3·3
Dark Season . . . . .	0·8	0·5	0·8	0·6	-0·6	- 1·1	- 0·6	- 0·7	-1·0	-0·7	0·1	0·7
Sunny Season . . . . .	10·6	7·3	1·9	-2·6	-6·4	- 9·5	-10·6	- 6·9	-4·3	1·9	7·5	10·7
Equinoctial Months . . . . .	3·3	3·0	2·6	0·8	-2·4	- 3·0	- 2·7	- 4·0	-3·2	-0·7	1·1	2·6
Year . . . . .	5·4	3·8	1·5	0·1	-3·3	- 4·9	- 5·1	- 4·7	-2·7	0·1	3·3	5·2

From these Tables are taken out the epochs and the values of the diurnal minima and maxima, and the diurnal range, as shown in the following Table.

	Minimum.		Maximum.		Range per cent.
	Hour.	Dev.	Hour.	Dev.	
January . . . . .	Noon	- 2·1	6 a. m.	+ 1·5	0·36
February . . . . .	Noon	- 1·6	6 a. m.	+ 0·8	0·24
March . . . . .	4 p. m.	- 2·1	6 a. m.	+ 2·5	0·46
April . . . . .	2 p. m.	- 6·5	4 a. m.	+ 6·3	1·28
May . . . . .	11 a. m.	-12·3	Midnight	+14·8	2·71
June . . . . .	2 p. m.	-16·6	1 a. m.	+17·0	3·36
July . . . . .	4 p. m.	- 9·9	1 a. m.	+ 8·5	1·84
August . . . . .	2 p. m.	-12·6	Midnight	+12·0	2·46
September . . . . .	4 p. m.	- 5·9	2 a. m.	+ 5·1	1·10
October . . . . .	7 p. m.	- 3·0	11 p. m.	+ 2·8	0·58
November . . . . .	10 a. m.	- 1·7	Midnight	+ 2·9	0·46
December . . . . .	10 p. m.	- 1·3	9 a. m.	+ 1·5	0·28
Winter . . . . .	Noon	- 0·9	6 a. m.	+ 1·3	0·22
Spring . . . . .	Noon	- 6·0	2 a. m.	+ 6·7	1·27
Summer . . . . .	2 p. m.	-12·7	1 a. m.	+12·1	2·48
Autumn . . . . .	11 a. m.	- 2·3	1 a. m.	+ 3·3	0·56
Dark Season . . . . .	Noon	- 1·1	2 a. m.	+ 0·8	0·19
Sunny Season . . . . .	Noon	-10·6	1 a. m.	+10·7	2·13
Equinoct. Months . . . . .	Noon	- 3·0	2 a. m.	+ 3·3	0·63
Year . . . . .	2 p. m.	- 5·1	1 a. m.	+ 5·4	1·05

The diurnal period comes out very distinctly in all months except December, with a minimum about noon, and a maximum near midnight. The range is greatest in June, and least in February. July has a secondary minimum. For the seasons see Pl. VII. 1 cm.<sup>1</sup> = 1 per cent.

### THE ANNUAL PERIOD.

The following Table gives the mean relative humidity per cent. for each month (Pl. VII. 1 mm. = 1 per cent.).

	January	February	March	April	May	June
1894	90.5	91.7	79.9	83.3	81.6	87.5
95	71.6	74.2	76.0	81.4	84.2	89.6
96	81.9	90.1	88.2	79.2	82.6	90.3
Mean	81.3	85.3	81.4	81.3	82.8	89.1
	July	August	September	October	November	December
1893				84.1	84.2	89.2
94	93.2	91.8	86.5	76.7	72.8	72.6
95	93.6	91.4	88.0	75.4	83.3	80.1
96	96.6	90.0				
Mean	94.5	91.3	87.3	78.7	80.1	80.6

Annual Mean 84.5 per cent.

„ Minimum 78.1 „ „ October 27<sup>th</sup>, and 81.1 April 2<sup>nd</sup>.

„ Maximum 94.6 „ „ July 19<sup>th</sup>, „ 85.3 February 14<sup>th</sup>.

„ Range 16.5 „ „

The march is very regular in the summer half-year, but somewhat irregular in the winter months. (Pl. VII. Mark errors in May and December).

### WIND-ROSES FOR THE RELATIVE HUMIDITY.

The figures in the following Tables have been computed in the same manner as the foregoing wind-roses.

<sup>1</sup> On Pl. VII, 'mm.' has been erroneously written for 'cm.'

## WIND-ROSES FOR THE RELATIVE HUMIDITY.

Weighted and smoothed. Per cent.

	Jan. '94-96	Feb. '94-96	March '94-96	Apr. '94-96	May '94-96	June '94-96	July '94-96	Aug. '94-96	Sept. '94-95	Oct. '93-95	Nov. '93-95	Dec. '93-95
N	76.9	85.9	80.6	80.4	83.9	89.8	93.4	89.9	85.4	78.2	79.3	81.0
NNE	78.0	85.6	83.3	81.4	82.0	90.4	95.4	89.9	86.2	76.8	80.2	80.8
NE	78.4	84.0	84.4	81.8	81.5	90.9	95.9	89.3	87.8	77.0	79.6	79.9
ENE	79.0	82.1	81.2	81.5	81.6	90.9	95.6	89.1	88.0	77.0	78.3	77.7
E	80.8	79.1	78.3	81.4	82.2	90.3	94.9	89.8	85.6	76.8	77.3	76.6
ESE	83.2	79.4	79.5	82.4	83.4	89.7	94.7	91.2	87.1	76.8	77.0	77.3
SE	83.1	82.1	82.7	82.5	86.9	89.8	94.6	92.3	89.2	75.8	78.1	78.9
SSE	81.3	83.4	84.0	81.4	84.8	89.8	94.5	91.5	90.4	74.6	80.3	80.4
S	80.2	82.8	83.7	81.1	85.6	90.1	94.7	91.0	90.0	74.0	81.9	80.9
SSW	79.4	84.1	84.0	81.8	85.7	89.2	94.8	91.3	89.0	75.7	81.1	78.7
SW	77.8	86.6	83.1	81.8	82.1	88.8	94.8	92.3	88.0	79.3	79.9	76.3
WSW	76.4	87.3	79.8	80.1	79.3	89.0	93.7	92.2	87.2	81.0	80.0	76.6
W	74.0	86.3	78.6	78.5	79.7	88.0	93.0	92.1	86.1	81.9	79.8	78.5
WNW	72.9	85.8	78.8	78.0	81.3	87.2	93.2	92.0	85.3	80.7	77.7	82.7
NW	74.8	86.0	78.6	77.6	83.1	88.0	93.2	91.6	85.6	80.5	76.5	83.2
NNW	76.1	85.9	78.9	78.6	84.5	88.9	92.3	90.7	85.7	90.0	77.4	81.5
Calm	85.4	84.4	84.6	82.8	80.2	83.6	89.5	90.1	86.3	81.9	82.7	85.5

	Winter	Spring	Summer	Autumn	Dark S.	Sunny S.	Equin. M.
N	80.9	81.1	90.9	80.7	80.0	87.1	83.7
NNE	80.7	82.0	91.7	80.8	80.0	86.4	84.9
NE	80.0	81.9	92.0	80.8	79.4	85.5	86.1
ENE	79.2	81.4	91.5	80.1	78.4	84.7	84.1
E	78.8	81.3	91.1	79.2	77.9	85.2	80.8
ESE	79.7	82.0	91.4	78.8	78.4	86.2	81.4
SE	80.8	83.0	92.0	79.2	79.5	87.6	84.5
SSE	81.3	83.3	92.2	80.2	80.1	87.5	85.9
S	81.2	83.2	92.3	81.2	80.1	88.0	85.6
SSW	81.0	83.2	92.3	81.9	79.8	89.3	85.7
SW	81.1	82.3	92.0	82.7	80.6	89.4	85.3
WSW	81.6	80.3	91.7	83.3	81.3	89.2	84.1
W	81.2	79.4	91.4	83.1	81.0	88.9	83.1
WNW	80.8	79.7	91.1	82.2	80.2	88.6	82.8
NW	80.8	80.4	90.8	81.3	80.0	88.1	83.7
NNW	80.9	81.1	90.6	80.8	79.8	87.5	83.5
Calm	85.1	82.8	88.5	83.6	83.8	86.3	85.6

The different months do not show much regularity in the amount of the relative humidity with different winds. The means for the seasons give a clearer result. Pl. VII. (1 mm. = 1 per cent.). The driest winds are those about east, and the most humid those from south to west. The equinoctial months have minima of relative humidity at east and west-north-west, and maxima at north-east and about south.

	Minimum				Maximum				Range
	Dir.	R. Hum.			Dir.	R. Hum.			
Winter . . . . .	E	78.8			WSW	81.6			2.8
Spring . . . . .	W	79.4	E	81.3	SSE	83.3	NNE	82.0	3.9
Summer . . . . .	NNW	90.6	E	91.1	S	92.3	NE	92.0	1.7
Autumn . . . . .	ESE	78.8			WSW	83.3			4.5
Dark Season . .	E	77.9			WSW	81.3			3.4
Sunny Season .	ENE	84.7			SW	89.4			4.7
Equin. Months .	E	80.8	WNW	82.8	NE	86.1	SSE	85.9	5.3

The relative humidity with *Calms* (Pl. VII. 1 mm. = 1 per cent.) is greater than with winds in winter, spring, autumn, the dark season and the equinoctial months, and less in summer and the sunny season.

## CLOUD.

## AMOUNT OF CLOUD.

## THE DIURNAL PERIOD.

The following Table gives the mean values of the amount of cloud for each observation-hour and for each month of the drift of the Fram, with the means for the month.

	2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.	Mean
1893 October . . . . .		4.64		5.06		5.58		7.06		5.97		5.35	5.61
— November . . . . .		3.60		4.50		3.90		4.00		3.03		2.96	3.67
— December . . . . .		2.97		3.19		3.35		3.22		3.35		2.93	3.17
1894 January . . . . .		2.42		2.03		2.26		3.22		2.32		2.32	2.43
— February . . . . .		4.03		4.57		4.92		3.82		3.78		4.17	4.22
— March . . . . .		4.06		6.55		6.29		5.48		5.42		4.61	5.40
— April . . . . .	4.33	4.23	4.80	5.20	5.56	5.43	4.93	4.96	4.76	4.73	4.90	4.26	4.84
— May . . . . .	6.35	6.19	6.61	6.80	6.42	6.64	7.22	7.22	7.19	7.42	7.61	7.65	6.94
— June . . . . .	8.53	8.93	8.83	8.80	8.93	9.13	8.86	9.00	8.96	8.83	8.73	9.13	8.89
— July . . . . .	8.58	7.58	7.42	8.77	8.80	9.39	9.32	9.39	9.16	9.00	8.00	8.32	8.64
— August . . . . .	7.93	7.68	8.35	8.48	7.97	8.39	8.48	8.58	8.84	8.58	8.48	8.00	8.31
— September . . . . .	8.80	9.60	9.63	9.63	9.36	9.86	9.30	9.10	9.16	9.36	9.33	9.30	9.37
— October . . . . .	6.84	5.55	6.42	7.64	7.06	8.09	8.06	7.75	7.42	6.77	6.45	6.39	7.04
— November . . . . .	2.60	2.26	2.76	5.00	5.33	5.00	5.03	5.16	5.00	3.66	4.26	3.43	4.12
— December . . . . .	3.93	3.45	3.39	4.19	4.03	4.87	4.51	4.19	3.22	3.55	4.84	3.39	3.96
1895 January . . . . .	3.90	3.93	5.90	5.68	3.97	4.16	4.16	3.55	3.48	3.45	4.35	5.22	4.31
— February . . . . .	2.46	2.35	2.85	3.75	5.00	3.50	3.75	3.92	4.07	3.10	2.85	2.60	3.35
— March . . . . .	2.93	3.32	2.42	3.71	2.74	3.06	3.00	2.74	3.16	3.06	3.42	2.97	3.04
— April . . . . .	2.03	1.93	2.30	2.16	2.76	3.36	4.80	3.26	4.20	3.60	2.93	2.76	3.01
— May . . . . .	7.45	7.32	7.54	6.97	7.87	8.22	8.19	7.39	7.87	7.71	7.29	7.19	7.58
— June . . . . .	8.35	7.54	8.03	8.77	8.64	8.48	8.61	8.19	8.77	8.64	8.29	8.54	8.40

	2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.	Mean
1895 July . . . . .	8.64	9.06	8.38	9.16	9.09	8.64	8.32	8.68	8.77	8.77	8.71	8.54	8.73
— August . . . . .	9.13	8.29	8.26	8.32	8.90	8.22	8.35	8.51	8.42	8.64	9.19	8.90	8.59
— September . . . . .	9.10	9.13	9.26	9.20	8.30	8.16	8.33	8.66	8.26	9.50	8.76	9.30	8.83
— October . . . . .	6.48	5.39	5.68	5.84	5.45	6.42	6.45	6.48	6.03	6.03	7.13	6.26	6.14
— November . . . . .	4.30	4.40	4.26	4.26	3.90	3.66	3.06	2.90	3.56	3.53	5.00	3.66	3.87
— December . . . . .	4.16	3.09	3.58	3.29	2.58	2.64	4.64	4.19	3.22	2.84	4.35	3.71	3.52
1896 January . . . . .	3.58	4.19	4.03	5.16	4.03	5.16	4.19	3.39	4.19	3.26	5.00	4.45	4.22
— February . . . . .	4.31	4.13	4.31	5.51	5.51	5.17	5.31	4.82	3.82	3.93	4.75	4.13	4.64
— March . . . . .	8.13	8.35	8.68	9.26	9.00	8.26	8.22	8.42	8.22	8.32	8.09	8.13	8.42
— April . . . . .	5.53	6.60	6.53	7.06	7.20	7.00	7.16	6.83	6.60	6.90	6.56	6.10	6.68
— May . . . . .	8.35	8.51	8.16	8.22	8.71	8.39	7.61	7.51	7.77	8.35	8.13	8.68	8.20
— June . . . . .	8.66	8.40	8.66	8.56	8.46	8.66	8.66	9.03	9.33	9.30	8.76	8.23	8.73
— July . . . . .	10.00	9.36	9.42	9.47	9.94	10.00	10.00	9.78	9.94	9.65	10.00	10.00	9.80

The following Table gives, for each month, for the seasons, and for the year, the weighted and smoothed means for 3 or 2 years of the bi-hourly deviations of the amount of cloud from the monthly mean.

	2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.	Monthly Mean
January . . . . .	+0.15	+0.05	+0.43	+0.48	+0.17	+0.06	-0.05	-0.26	-0.45	-0.39	+0.07	+0.18	3.65
February . . . . .	-0.54	-0.55	-0.17	+0.49	+0.80	+0.64	+0.39	+0.17	+0.13	-0.33	-0.35	-0.42	4.07
March . . . . .	-0.21	-0.10	+0.18	+0.53	+0.40	+0.15	+0.01	-0.08	-0.04	-0.02	-0.11	-0.27	5.62
April . . . . .	-0.71	-0.59	-0.31	-0.18	-0.14	+0.34	+0.55	+0.37	+0.27	+0.19	-0.08	-0.47	4.84
May . . . . .	-0.09	-0.20	-0.19	-0.13	+0.03	+0.14	+0.04	-0.07	+0.03	+0.16	+0.18	+0.11	7.57
June . . . . .	-0.19	-0.27	-0.19	-0.06	+0.01	+0.05	+0.06	+0.13	+0.25	+0.19	+0.01	+0.08	8.67
July . . . . .	+0.06	-0.35	-0.40	-0.07	+0.20	+0.24	+0.21	+0.21	+0.19	+0.14	-0.08	-0.09	9.06
August . . . . .	+0.08	-0.24	-0.18	-0.05	-0.06	-0.09	-0.03	+0.08	+0.15	+0.22	+0.23	+0.12	8.45
September . . . . .	+0.04	+0.17	+0.29	+0.16	-0.08	-0.18	-0.22	-0.28	-0.17	+0.05	+0.11	+0.05	9.10
October . . . . .	-0.33	-0.56	-0.46	-0.22	-0.03	+0.33	+0.55	+0.46	+0.19	+0.06	0.00	-0.10	6.26
November . . . . .	-0.21	-0.21	+0.03	+0.35	+0.30	+0.24	+0.16	+0.04	-0.10	-0.19	-0.17	-0.24	3.89
December . . . . .	-0.05	-0.22	-0.21	-0.03	+0.05	+0.12	+0.25	+0.15	-0.20	-0.02	+0.31	-0.11	3.55
Winter . . . . .	-0.15	-0.24	+0.02	+0.31	+0.34	+0.27	+0.20	+0.02	-0.17	-0.25	+0.01	-0.12	3.76
Spring . . . . .	-0.34	-0.30	-0.11	+0.07	+0.10	+0.21	+0.20	+0.07	+0.09	+0.11	0.00	-0.21	6.01
Summer . . . . .	-0.02	-0.29	-0.26	-0.06	+0.05	+0.07	+0.08	+0.14	+0.20	+0.18	+0.05	+0.04	8.73
Autumn . . . . .	-0.17	-0.20	-0.05	+0.10	+0.06	+0.13	+0.16	+0.07	-0.03	-0.03	-0.02	-0.10	6.42



	2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.	Monthly Mean
Dark Season . . . . .	-0.20	-0.30	-0.08	+0.21	+0.26	+0.28	+0.26	+0.11	+0.09	-0.19	-0.03	-0.14	4.28
Sunny Season . . . . .	-0.17	-0.33	-0.25	-0.10	+0.01	+0.14	+0.17	+0.14	+0.18	+0.18	+0.05	-0.05	7.72
Equinoctial Months . .	-0.09	+0.04	+0.24	+0.35	+0.16	-0.02	-0.11	-0.18	-0.11	+0.02	0.00	-0.11	7.35
Year . . . . .	-0.17	-0.27	-0.10	+0.11	+0.14	+0.17	+0.16	+0.08	+0.02	0.00	+0.01	-0.04	6.23

From these Tables are taken out the epochs and values of the diurnal minima and maxima and the diurnal range, as shown in the following Table.

	Minimum.		Maximum.		Range.
	Hour.	Dev.	Hour.	Dev.	
January . . . . .	6 p. m.	- 0.45	8 a. m.	+ 0.48	0.93
February . . . . .	3 a. m.	- 0.55	10 a. m.	+ 0.80	1.35
March . . . . .	Mnt.	- 0.27	8 a. m.	+ 0.53	0.80
April . . . . .	2 a. m.	- 0.71	2 p. m.	+ 0.55	1.26
May . . . . .	5 a. m.	- 0.20	9 p. m.	+ 0.18	0.38
June . . . . .	4 a. m.	- 0.27	6 p. m.	+ 0.25	0.52
July . . . . .	6 a. m.	- 0.40	Noon	+ 0.24	0.64
August . . . . .	4 a. m.	- 0.24	9 p. m.	+ 0.23	0.47
September . . . . .	4 p. m.	- 0.28	6 a. m.	+ 0.29	0.57
October . . . . .	4 a. m.	- 0.56	2 p. m.	+ 0.55	1.11
November . . . . .	Mnt.	- 0.24	8 a. m.	+ 0.35	0.59
December . . . . .	5 a. m.	- 0.22	10 p. m.	+ 0.31	0.53
Winter . . . . .	3 a. m.	- 0.25	10 a. m.	+ 0.34	0.59
Spring . . . . .	2 a. m.	- 0.34	1 p. m.	+ 0.21	0.55
Summer . . . . .	4 a. m.	- 0.29	6 p. m.	+ 0.20	0.49
Autumn . . . . .	4 a. m.	- 0.20	2 p. m.	+ 0.16	0.36
Dark Season . . . . .	4 a. m.	- 0.30	Noon	+ 0.28	0.58
Sunny Season . . . . .	4 a. m.	- 0.33	7 p. m.	+ 0.18	0.51
Equinoct. Months . . .	4 p. m.	- 0.18	8 a. m.	+ 0.35	0.53
Year . . . . .	4 a. m.	- 0.27	Noon	+ 0.17	0.44

In the means for the seasons, the Table shows a regular diurnal period of the amount of cloud. The day is more cloudy than the night. The range is greatest in winter, and least in autumn. Pl. VII (1 cm. = 1 of the scale 0—10).

An inquiry into the question as to whether there is a difference between the diurnal period of the amount of cloud with weak winds and that with strong winds, has led to the following results. The days with a wind-velocity less or more than 4·5 metres per second are the same as in the similar tables already given (pp. 299 and 478) for the diurnal period of the velocity of the wind and that of the temperature of the air.

Hour.	October 1893, 94, 95.		November 1893, 94, 95.		December 1893, 94, 95.		January 1894, 95, 96.	
	v < 4·5	v > 4·5	v < 4·5	v > 4·5	v < 4·5	v > 4·5	v < 4·5	v > 4·5
	d.	d.	d.	d.	d.	d.	d.	d.
2 a. m.	- 0·47	- 0·42	- 0·64	- 0·15	0·00	- 0·15	+ 0·10	- 0·49
4	- 0·44	- 0·54	- 0·61	- 0·04	- 0·10	- 0·37	+ 0·23	- 0·44
6	- 0·98	- 0·31	- 0·17	+ 0·12	- 0·01	- 0·58	+ 0·43	+ 0·24
8	- 0·78	+ 0·17	+ 0·39	+ 0·29	- 0·01	- 0·37	+ 0·38	+ 0·31
10	- 0·56	+ 0·43	+ 0·49	+ 0·20	- 0·14	- 0·02	+ 0·14	+ 0·05
Noon	+ 0·01	+ 0·56	+ 0·25	+ 0·09	+ 0·04	+ 0·38	+ 0·06	+ 0·21
2 p. m.	+ 0·68	+ 0·57	+ 0·23	- 0·03	+ 0·28	+ 0·71	- 0·14	+ 0·39
4	+ 1·04	+ 0·30	+ 0·42	- 0·12	+ 0·07	+ 0·55	- 0·39	+ 0·12
6	+ 0·85	- 0·06	- 0·01	- 0·07	- 0·23	- 0·07	- 0·48	- 0·16
8	+ 0·39	- 0·15	- 0·11	- 0·01	- 0·11	- 0·15	- 0·33	- 0·40
10	+ 0·17	- 0·20	+ 0·03	- 0·07	+ 0·11	+ 0·11	- 0·06	+ 0·07
Midnight	+ 0·04	- 0·35	- 0·25	- 0·21	+ 0·11	- 0·02	+ 0·04	+ 0·09
Mean	5·37	7·13	3·09	5·14	2·95	4·48	2·32	5·42
Hour.	February 1894, 95, 96.		March 1894, 95, 96.		April 1894, 95, 96.		May 1894, 95, 96.	
	v < 4·5	v > 4·5	v < 4·5	v > 4·5	v < 4·5	v > 4·5	v < 4·5	v > 4·5
2 a. m.	- 0·27	- 0·47	+ 0·22	- 1·47	- 0·72	- 0·79	- 0·18	+ 0·08
4	- 0·61	- 0·27	+ 0·35	- 1·45	- 0·52	- 0·88	- 0·09	- 0·48
6	- 0·50	+ 0·32	+ 0·20	- 0·18	- 0·20	- 0·52	+ 0·05	- 0·47
8	- 0·29	+ 1·41	+ 0·29	+ 0·87	+ 0·02	- 0·03	+ 0·28	- 0·50
10	- 0·16	+ 1·93	+ 0·28	+ 0·85	+ 0·28	+ 0·26	+ 0·29	- 0·38
Noon	- 0·12	+ 1·49	+ 0·04	+ 0·59	+ 0·57	+ 0·38	+ 0·16	- 0·10
2 p. m.	+ 0·05	+ 0·72	- 0·17	+ 0·47	+ 0·58	+ 0·48	- 0·09	+ 0·03
4	+ 0·27	- 0·09	- 0·31	+ 0·43	+ 0·33	+ 0·49	- 0·19	+ 0·02
6	+ 0·50	- 1·09	- 0·30	+ 0·39	+ 0·19	+ 0·45	- 0·02	+ 0·14
8	+ 0·63	- 1·64	- 0·18	+ 0·17	+ 0·10	+ 0·38	+ 0·05	+ 0·24
10	+ 0·47	- 1·40	- 0·21	- 0·09	- 0·12	+ 0·09	- 0·07	+ 0·62
Midnight	+ 0·01	- 0·89	- 0·16	- 0·61	- 0·48	- 0·33	- 0·25	+ 0·84
Mean	2·68	6·18	4·25	7·80	3·66	6·96	6·85	8·27

Hour.	June 1894, 95, 96.		July 1894, 95, 96.		August 1894, 95.		September 1894, 95.	
	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5
	d.	d.	d.	d.	d.	d.	d.	d.
2 a. m.	- 0.36	+ 0.05	- 0.14	- 0.18	- 0.37	+ 0.49	+ 0.04	+ 0.03
4	- 0.51	+ 0.05	- 0.50	- 0.14	- 0.56	+ 0.35	- 0.04	+ 0.28
6	- 0.29	+ 0.02	- 0.62	- 0.16	- 0.34	+ 0.05	- 0.02	+ 0.43
8	+ 0.03	- 0.07	- 0.16	+ 0.14	- 0.09	- 0.03	- 0.23	+ 0.49
10	+ 0.20	- 0.19	+ 0.17	+ 0.32	- 0.13	+ 0.08	- 0.24	+ 0.19
Noon	+ 0.22	- 0.16	+ 0.28	+ 0.19	- 0.14	- 0.01	+ 0.03	- 0.14
2	+ 0.10	+ 0.01	+ 0.34	+ 0.04	+ 0.09	- 0.28	+ 0.09	- 0.33
4	+ 0.05	+ 0.24	+ 0.28	+ 0.18	+ 0.36	- 0.45	- 0.12	- 0.42
6	+ 0.17	+ 0.37	+ 0.25	+ 0.20	+ 0.46	- 0.45	- 0.08	- 0.32
8	+ 0.23	+ 0.15	+ 0.16	- 0.04	+ 0.46	- 0.24	+ 0.10	- 0.16
10	+ 0.20	- 0.24	- 0.02	- 0.28	+ 0.28	+ 0.13	+ 0.21	+ 0.01
Midnight	0.00	- 0.19	- 0.09	- 0.28	- 0.04	+ 0.41	+ 0.24	- 0.05
Mean	8.49	9.15	8.64	9.41	8.13	9.09	8.97	9.30
Hour.	Winter Dec., Jan., Feb.		Spring Mar., Apr., May.		Summer June, July, Aug.		Autumn Sept., Oct., Nov.	
	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5
2 a. m.	- 0.06	- 0.37	- 0.22	- 0.73	- 0.27	+ 0.12	- 0.33	- 0.18
4	- 0.16	- 0.36	- 0.28	- 0.94	- 0.50	+ 0.08	- 0.33	- 0.10
6	- 0.03	- 0.01	+ 0.03	- 0.39	- 0.40	- 0.03	- 0.36	+ 0.08
8	+ 0.03	+ 0.45	+ 0.21	+ 0.11	- 0.05	+ 0.01	- 0.51	+ 0.32
10	- 0.05	+ 0.65	+ 0.29	+ 0.24	+ 0.10	+ 0.07	- 0.08	+ 0.27
Noon	- 0.01	+ 0.69	+ 0.27	+ 0.29	+ 0.14	0.00	+ 0.13	+ 0.17
2 m. p.	+ 0.06	+ 0.61	+ 0.12	+ 0.32	+ 0.20	- 0.08	+ 0.36	+ 0.07
4	- 0.02	+ 0.19	- 0.02	+ 0.31	+ 0.25	- 0.02	+ 0.48	- 0.08
6	- 0.07	- 0.44	- 0.03	+ 0.32	+ 0.11	+ 0.04	+ 0.28	- 0.15
8	+ 0.06	- 0.73	0.00	+ 0.26	+ 0.30	- 0.05	+ 0.16	- 0.11
10	+ 0.17	- 0.41	- 0.12	+ 0.20	+ 0.17	- 0.13	+ 0.17	- 0.09
Midnight	+ 0.05	- 0.27	- 0.29	- 0.04	- 0.02	- 0.02	+ 0.04	- 0.20
Mean	2.65	5.36	4.91	7.68	8.40	9.22	5.78	7.19
Hour.	Dark Season Oct.—Feb.		Sunny Season Apr.—Aug.		Equinoctial Months March. Sept.		Year	
	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5	v < 4.5	v > 4.5
2 a. m.	- 0.22	- 0.34	- 0.36	- 0.07	+ 0.13	- 0.72	- 0.22	- 0.29
4	- 0.27	- 0.33	- 0.44	- 0.22	+ 0.16	- 0.58	- 0.32	- 0.33
6	- 0.21	- 0.04	- 0.27	- 0.22	+ 0.09	+ 0.13	- 0.19	- 0.08
8	- 0.23	+ 0.36	+ 0.01	- 0.10	+ 0.03	+ 0.68	- 0.08	+ 0.23
10	- 0.01	+ 0.52	+ 0.16	+ 0.01	+ 0.02	+ 0.52	+ 0.06	+ 0.31
Noon	+ 0.08	+ 0.55	+ 0.21	+ 0.06	+ 0.04	+ 0.23	+ 0.13	+ 0.29

Hour.	Dark Season Oct.—Feb.		Sunny Season Apr.—Aug.		Equinoctial Months March. Sept.		Year	
	v < 4·5	v > 4·5	v < 4·5	v > 4·5	v < 4·5	v > 4·5	v < 4·5	v > 4·5
	d.	d.	d.	d.	d.	d.	d.	d.
2 p. m.	+ 0·07	+ 0·47	+ 0·20	+ 0·05	— 0·04	+ 0·07	+ 0·18	+ 0·23
4	+ 0·31	+ 0·15	+ 0·16	+ 0·09	— 0·21	+ 0·01	+ 0·17	+ 0·10
6	+ 0·16	— 0·29	+ 0·20	+ 0·14	— 0·19	+ 0·04	+ 0·07	— 0·05
8	+ 0·13	— 0·47	+ 0·19	+ 0·09	— 0·04	+ 0·01	+ 0·13	— 0·15
10	+ 0·18	— 0·30	+ 0·05	+ 0·06	0·00	— 0·04	+ 0·09	— 0·10
Midnight	+ 0·02	— 0·28	— 0·17	+ 0·09	+ 0·04	— 0·33	— 0·06	— 0·13
Mean	3·25	5·67	7·16	8·58	6·61	8·55	5·44	7·36

	Mean v	Minimum.		Maximum.		Range.	Mean Ord.	Mean Cloud.
	m. p. s.	Hour.	Dev.	Hour.	Dev.			
January	3·06	6 p. m.	— 0·48	7 a. m.	+ 0·43	0·91	0·23	2·32
—	6·30	2 a. m.	— 0·49	2 p. m.	+ 0·39	0·88	0·25	5·42
February	3·03	4 a. m.	— 0·61	8 p. m.	+ 0·63	1·24	0·32	2·68
—	6·90	8 p. m.	— 1·64	10 a. m.	+ 1·93	3·57	0·98	6·18
March	3·13	5 p. m.	— 0·31	4 a. m.	+ 0·35	0·66	0·23	4·25
—	6·03	3 a. m.	— 1·47	9 a. m.	+ 0·87	2·34	0·63	7·80
April	2·98	2 a. m.	— 0·72	1 p. m.	+ 0·58	1·30	0·34	3·66
—	5·95	4 a. m.	— 0·88	4 p. m.	+ 0·49	1·37	0·42	6·96
May	3·03	4 p. m.	— 0·19	10 a. m.	+ 0·29	0·48	0·14	6·85
—	6·30	8 a. m.	— 0·50	Midnight	+ 0·84	1·34	0·33	8·27
June	3·15	4 a. m.	— 0·51	8 p. m.	+ 0·23	0·74	0·19	8·49
—	6·49	10 p. m.	— 0·24	6 p. m.	+ 0·37	0·61	0·14	9·15
July	3·64	6 a. m.	— 0·62	2 p. m.	+ 0·34	0·96	0·25	8·64
—	5·87	11 p. m.	— 0·28	10 a. m.	+ 0·32	0·60	0·18	9·41
August	3·02	4 a. m.	— 0·56	7 p. m.	+ 0·46	1·02	0·28	8·13
—	6·67	5 p. m.	— 0·45	2 a. m.	+ 0·49	0·94	0·25	9·09
Sept.	3·24	9 a. m.	— 0·24	Midnight	+ 0·24	0·48	0·12	8·97
—	5·96	4 p. m.	— 0·42	8 a. m.	+ 0·49	0·91	0·22	9·30
Oct.	2·93	6 a. m.	— 0·98	4 p. m.	+ 1·04	2·02	0·53	5·37
—	6·75	4 a. m.	— 0·54	1 p. m.	+ 0·57	1·11	0·34	7·13
Nov.	2·85	3 a. m.	— 0·64	10 a. m.	+ 0·49	1·13	0·30	3·09
—	6·56	Midnight	— 0·21	8 a. m.	+ 0·29	0·50	0·12	5·14
Dec.	2·79	6 p. m.	— 0·23	2 p. m.	+ 0·28	0·51	0·10	2·95
—	6·27	6 a. m.	— 0·58	2 p. m.	+ 0·71	1·29	0·29	4·48

	Mean v	Minimum.		Maximum.		Range.	Mean Ord.	Mean Cloud.
	m. p. s.	Hour.	Dev.	Hour.	Dev.			
Winter . . . . .	2.96	4 a. m.	- 0.16	10 p. m.	+ 0.17	0.33	0.07	2.65
— . . . . .	6.49	8 p. m.	- 0.73	Noon	+ 0.69	1.42	0.43	5.36
Spring . . . . .	3.05	Mnt.	- 0.29	10 a. m.	+ 0.29	0.58	0.16	4.91
— . . . . .	6.09	4 a. m.	- 0.94	4 p. m.	+ 0.32	1.26	0.35	7.68
Summer . . . . .	3.27	4 a. m.	- 0.50	8 p. m.	+ 0.30	0.80	0.21	8.40
— . . . . .	6.34	10 p. m.	- 0.13	2 p. m.	+ 0.12	0.25	0.05	9.22
Autumn . . . . .	3.00	8 a. m.	- 0.51	4 p. m.	+ 0.48	0.99	0.27	5.78
— . . . . .	6.42	Mnt.	- 0.20	8 a. m.	+ 0.32	0.52	0.15	7.19
Dark Season . . .	2.93	4 a. m.	- 0.27	4 p. m.	+ 0.31	0.58	0.16	3.25
— — . . .	6.56	8 p. m.	- 0.47	Noon	+ 0.55	1.02	0.34	5.67
Sunny Season . .	3.16	4 a. m.	- 0.44	Noon	+ 0.21	0.65	0.20	7.16
— — . . .	6.26	5 a. m.	- 0.22	6 p. m.	+ 0.14	0.36	0.10	8.58
Equinoct. Months	3.19	4 p. m.	- 0.21	4 a. m.	+ 0.16	0.37	0.08	6.61
— —	5.98	2 a. m.	- 0.72	8 a. m.	+ 0.68	1.40	0.28	8.55
Year . . . . .	3.10	4 a. m.	- 0.32	3 p. m.	+ 0.18	0.50	0.13	5.44
— . . . . .	6.27	4 a. m.	- 0.33	10 a. m.	+ 0.31	0.64	0.19	7.36

We see from these Tables that in every month the amount of cloud is greater with the stronger winds, and less with the weaker winds. The difference is greatest in the colder months, about 3.4 from January to April, and least in September, which month has the greatest amount of cloud.

The weaker winter winds and the fresher summer winds give no appreciable diurnal period of the cloudiness. The general rule is that the amount of cloud is greater during the day than during the night, and that the diurnal range is greater with the stronger winds than with the weaker. Pl. VIII. (1 cm. = 1 degree of the cloud-scale).

## THE ANNUAL PERIOD.

The following Table gives the mean amount of cloud for each month during the drift of the Fram, extracted from the Table on pp. 511, 512.

	January.	February.	March.	April.	May.	June.
1894	2.43	4.22	5.40	4.84	6.94	8.89
95	4.31	3.35	3.04	3.01	7.58	8.40
96	4.22	4.64	8.42	6.68	8.20	8.73
Mean	3.65	4.07	5.62	4.84	7.57	8.67
Smoothed	3.73	4.35	5.04	5.72	7.16	8.49
	July.	August.	September.	October.	November.	December.
1893				5.61	3.67	3.17
94	8.64	8.31	9.37	7.04	4.12	3.96
95	8.73	8.59	8.83	6.14	3.87	3.52
96	9.80					
Mean	9.06	8.45	9.10	6.26	3.89	3.55
Smoothed	8.81	8.76	8.23	6.38	4.40	3.66

Annual Mean 6.23

— Minimum 3.59 December 28<sup>th</sup>

— Maximum 8.84 July 27<sup>th</sup>

— Range 5.25

From October to April, the amount of cloud is below the mean for the year, from May to September it is above. The winter months are remarkably clear, the summer months very cloudy. Pl. VIII. (1 cm. = 2 of cloud-scale).

The average number of clear days and of overcast days are

	Clear.	Over-cast.		Clear.	Over-cast.		Clear.	Over-cast.
January . . . .	14	8	July . . . . .	0	27	Winter . . . .	41	20
February . . . .	12	6	August . . . .	0	24	Spring . . . .	24	41
March . . . . .	9	14	September . .	0	27	Summer . . . .	0	77
April . . . . .	8	9	October . . . .	4	12	Autumn . . . .	15	45
May . . . . .	7	18	November . . .	11	6			
June . . . . .	0	26	December . . .	15	6	Year . . . . .	80	183

Pl. VIII. 1 mm. = 1 day.

## NEPHIC WIND-ROSES.

Amount of Cloud. Weighted and Smoothed Means.

	Jan. '94-96	Feb. '94-96	March '94-96	Apr. '94-96	May '94-96	June '94-96	July '94-96	Aug. '94-96	Sept. '94-95	Oct. '93-95	Nov. '93-95	Dec. '93-95
N	2.7	3.5	4.1	4.1	7.1	8.6	8.7	8.9	9.3	4.9	4.0	2.4
NNE	3.4	4.5	5.6	5.0	6.3	8.9	9.4	9.4	9.2	5.0	4.2	2.5
NE	3.7	5.4	6.5	6.0	6.3	9.2	9.4	9.5	9.1	5.6	4.6	2.8
ENE	3.4	5.0	5.1	6.5	6.9	9.4	9.1	9.2	9.1	6.6	4.6	2.9
E	3.2	3.7	4.0	6.3	7.3	9.2	9.0	9.1	8.9	7.1	3.6	3.2
ESE	4.2	3.2	4.9	5.9	7.6	9.2	8.8	9.2	9.1	7.3	3.6	3.9
SE	5.6	3.5	6.4	5.0	8.0	9.1	8.5	9.0	9.5	6.7	3.4	4.4
SSE	5.8	4.3	6.9	4.5	8.2	9.1	8.5	8.2	9.6	6.1	3.1	5.0
S	4.9	4.8	6.9	5.0	8.7	9.3	8.8	7.7	9.6	6.4	3.6	4.4
SSW	3.8	5.1	7.3	5.2	9.4	9.2	9.2	7.8	9.4	6.5	4.5	3.3
SW	3.4	5.1	7.4	4.2	9.2	8.9	9.3	8.3	9.0	6.4	5.4	3.4
WSW	3.7	4.5	5.3	2.9	8.6	8.7	9.1	8.6	8.7	7.2	5.9	4.7
W	3.4	4.4	3.6	1.7	8.1	8.4	8.8	8.6	8.5	7.8	4.8	5.6
WNW	2.8	4.3	3.4	1.1	7.5	8.3	8.9	8.7	8.8	7.2	2.6	5.0
NW	2.4	3.6	4.4	1.4	7.2	8.2	8.8	8.7	9.4	6.2	3.0	3.7
NNW	2.3	3.2	4.1	2.8	7.4	8.3	8.4	8.7	9.5	5.5	3.4	3.2
Calm	1.3	0.0	5.9	4.2	5.0	9.2	5.3	7.5	7.7	4.2	3.3	2.4

	Winter	Spring	Summer	Autumn	Dark S.	Sunny S.	Equin. M.
N	2.9	5.3	8.7	5.8	3.5	7.4	7.5
NNE	3.2	5.7	9.1	5.9	3.8	7.2	7.6
NE	3.5	6.0	9.3	6.2	4.2	7.3	7.8
ENE	3.5	6.2	9.3	6.3	4.3	6.6	6.8
E	3.5	6.2	9.1	6.2	4.2	7.7	5.4
ESE	3.9	6.3	9.0	6.2	4.5	7.8	5.9
SE	4.5	6.4	8.9	6.1	4.9	7.6	7.3
SSE	4.9	6.4	8.7	6.0	5.0	6.8	7.7
S	4.7	6.5	8.8	6.2	4.8	7.6	7.7
SSW	4.3	6.8	8.8	6.6	4.6	8.1	8.0
SW	4.2	6.7	8.8	7.0	4.8	8.3	8.1
WSW	4.2	6.1	8.8	7.3	5.3	8.3	7.3
W	4.1	5.2	8.7	7.3	5.2	8.1	6.4
WNW	3.7	4.8	8.6	6.8	4.4	7.9	6.9
NW	3.1	4.8	8.6	6.3	3.8	7.6	7.6
NNW	2.9	5.0	8.5	6.0	3.4	7.4	7.7
Calm	1.4	5.1	7.3	4.7	2.5	6.5	6.8

In winter and spring the southerly winds have a greater amount of cloud than the northerly winds. In summer the cloudiness is about the same with all winds. In autumn the westerly winds bring the greatest amount of cloud. Pl. VIII. (1 cm. = overcast).

Calm weather is attended with clearer sky in the dark season, and a clouded sky in the sunny season. Pl. VIII. (1 cm. = overcast).

## FORMS OF CLOUD.

### THE DIURNAL PERIOD.

The number of cases in which the different forms of cloud have been noted at each alternate hour, have been registered for each month of the drift of the Fram, and the monthly averages taken and smoothed for the four seasons and the year. The following Table shows the result of this computation.

		2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.
Cirrus.	Winter	1·1	1·1	1·1	1·5	1·6	1·8	2·2	1·9	1·4	1·2	1·1	1·0
	Spring	2·1	1·9	2·1	2·9	3·7	4·2	4·1	3·9	4·4	4·5	3·8	2·7
	Summer	2·2	1·9	2·1	2·8	3·4	4·2	3·9	3·0	3·2	3·9	3·7	2·7
	Autumn	1·1	1·3	1·9	2·5	2·6	2·3	2·4	2·7	2·4	2·1	1·9	1·4
	Year	1·5	1·5	1·7	2·3	2·8	3·2	3·2	3·0	2·9	2·9	2·7	2·0
Cirro-stratus.	Winter	3·5	3·1	3·4	4·1	4·3	4·5	4·8	4·4	3·9	4·4	5·3	4·6
	Spring	3·0	3·2	3·1	2·8	2·7	2·4	1·9	1·9	2·3	2·8	2·5	2·6
	Summer	3·3	3·3	3·1	3·4	3·7	3·8	4·0	3·8	3·4	3·1	2·6	2·7
	Autumn	2·2	2·1	2·2	2·3	2·8	3·4	3·4	3·2	3·2	3·2	3·1	2·7
	Year	3·0	2·9	3·0	3·2	3·4	3·5	3·5	3·3	3·2	3·4	3·4	3·2
Cirro-cumulus.	Winter	0·3	0·3	0·3	0·2	0·3	0·7	0·9	0·6	0·4	0·6	0·7	0·5
	Spring	0·7	0·6	1·2	1·8	1·5	1·8	2·5	2·3	1·8	1·6	1·5	1·1
	Summer	1·3	1·2	1·6	2·2	2·4	2·8	3·2	2·9	2·3	2·2	2·1	1·7
	Autumn	0·6	0·8	1·1	1·4	1·3	1·7	2·2	1·8	1·0	0·9	1·1	0·8
	Year	0·9	1·0	1·4	1·8	1·8	2·3	2·9	2·5	1·8	1·8	1·8	1·3



		2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.
Strato-cumulus.	Winter	0·3	0·2	0·2	0·5	0·9	0·8	0·7	0·8	0·6	0·3	0·2	0·3
	Spring	1·1	1·0	1·5	2·7	3·4	3·4	4·0	4·1	4·0	3·9	3·2	1·9
	Summer	1·8	1·3	2·2	3·7	4·4	4·8	5·0	4·7	4·3	4·3	4·0	2·9
	Autumn	0·6	0·6	1·4	3·3	4·6	4·0	2·9	2·7	2·6	2·5	2·1	0·9
	Year	1·2	1·0	1·7	3·4	4·4	4·3	4·2	4·1	3·8	3·7	3·2	2·0
Cumulus.	Winter	0·3	0·5	0·3	0·2	0·3	0·3	0·4	0·4	0·3	0·2	0·2	0·2
	Spring	0·9	1·0	0·9	0·8	1·0	1·2	1·1	0·8	0·9	1·2	0·7	0·7
	Summer	0·5	0·7	0·7	0·7	0·8	0·8	1·0	1·0	0·9	0·7	0·6	0·5
	Autumn	0·4	0·3	0·6	1·0	1·0	0·9	1·0	0·9	0·7	0·6	0·6	0·7
	Year	0·7	0·8	0·8	0·9	1·0	1·1	1·1	1·0	0·9	0·9	0·7	0·7
Stratus.	Winter	4·9	5·4	5·6	5·1	4·7	4·4	4·0	4·2	4·2	3·7	3·5	4·2
	Spring	9·5	9·5	9·2	8·6	8·3	8·3	8·3	8·5	8·4	7·9	8·3	9·1
	Summer	15·3	15·5	14·7	13·2	12·0	11·0	10·8	11·3	11·6	11·6	12·6	14·3
	Autumn	14·0	13·9	13·3	11·9	10·5	10·5	11·3	11·7	11·9	12·0	12·0	12·9
	Year	10·9	11·1	10·7	9·7	8·9	8·6	8·9	8·9	9·0	8·8	9·1	10·1

*Cirrus* is found most frequently during the day, and least frequently in the early morning hours.

*Cirro-stratus* has a less regular period. In winter, summer and autumn, we find a greater amount during the day than during the night; but in spring the period is reversed.

*Cirro-cumulus* has a maximum of frequency at 2 p. m., and a minimum about 2 a. m. in all seasons.

*Strato-cumulus* has a maximum in the day hours, in spring and summer a couple of hours after noon, in autumn at 10 a. m., and a minimum in the early morning hours, with a rather large range.

*Cumulus* has a very slightly pronounced period with a maximum in the middle of the day, and a minimum at midnight.

*Stratus* shows a maximum in the early morning hours and a minimum at noon or later in the afternoon. The range is rather large in summer and autumn.

## ANNUAL PERIOD.

The following Table gives the average monthly number of cases in which the different forms of cloud are found by bi-hourly observations during the 24 hours.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Cirrus . . . . .	20·3	17·3	37·6	40·9	42·3	36·8	41·4	33·1	22·5	24·8	24·5	13·2	354·7
Cirro-stratus . . . . .	56·5	45·8	25·7	28·7	38·6	34·9	54·2	31·3	38·5	35·9	27·1	48·3	465·5
Cirrus and Cirro-stratus .	76·8	63·1	63·3	69·6	80·9	71·7	95·6	64·4	61·0	60·7	51·6	61·5	820·2
Cirro-cumulus . . . . .	5·3	6·3	17·3	12·6	24·5	26·1	29·8	20·9	25·0	14·3	4·1	5·2	191·4
Strato-cumulus . . . . .	6·5	7·0	28·4	29·6	44·0	49·4	40·6	39·6	38·0	27·7	19·3	3·8	333·9
Cumulus . . . . .	5·7	2·8	5·4	11·3	16·1	7·3	5·0	14·0	14·0	6·7	5·0	1·8	95·1
Stratus . . . . .	53·7	53·0	86·6	77·6	147·3	166·3	164·3	134·9	226·5	143·1	68·2	54·5	1376·0

The different forms of cloud have their maximum of frequency in the warmer part of the year, and their minimum in the colder part, as is the case with the amount of cloud in general. We find an exception in the cirro-stratus cloud, which has a chief maximum in January, and only a secondary maximum in July. Stratus has the largest range, and cumulo-stratus comes next.

The total frequency in the whole year ranges thus — stratus, cirro-stratus, cirrus, strato-cumulus, cirro-cumulus and cumulus. True cumulus clouds are rather scarce even in the summer, and it is a question whether this form really occurs after all in its typical form.

The expedition started in 1893, and the International Cloud-Atlas was published in 1896.

## CLOUD MOTION.

The following Tables show the number of cases in which the different forms of clouds have been noted moving from the respective points of the compass (true direction) during the drift of the Fram. The higher forms of clouds are treated separately, the lower clouds comprise cumulo-stratus,

cumulus and stratus. The Tables give the sums of cases of each of the 16 points for the whole year and for the sunny season. In the dark season and in the night, the observation of the form of clouds is very difficult and sometimes impossible. The figures for this season and for the equinoctial months are therefore not to be considered as altogether trustworthy. It is only for the sunny season that they are likely to give results of scientific interest.

## CIRRUS.

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
January . . . .			1										1		1	
February . . .	2						1				1		2	1	1	
March . . . . .					2	1	1				3		2	1	1	
April . . . . .	1		1		2	1	2	1	5		4		6		4	
May . . . . .	4	1	3		10	2	11	1	5		2			2	2	1
June . . . . .	3	2	1		2		3	1	2		3				1	
July . . . . .	4	2	1	2	2			2	1			3	3	2	1	
August . . . .	4		1	4	1		2	4	3	1	1	2	8	2	10	
September . .	1								1	1	1				1	
October . . . .	1		1	1	3	1		1			1	1	1		1	
November . .				1		1			1							
December . .		1	2										1			
Year . . . . .	20	6	11	8	22	6	20	10	18	2	16	6	24	8	23	1
Sunny Season	16	5	7	6	17	4	18	9	16	1	10	5	17	6	18	1

## CIRRO-STRATUS.

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
January . . . .																
February . . .							2				2	1				
March . . . . .							1	1	1	1					1	
April . . . . .		1	1		1		1	1							2	
May . . . . .					8		5		1						1	
June . . . . .	5	2	3		1				3		2		1	1	1	1
July . . . . .	2										3		15	5	9	
August . . . .	2						1	1			5	1	2	1	6	
September . .					2		1						1		1	
October . . . .														1	1	
November . .									2							
December . .			1													
Year . . . . .	9	3	5	0	12	0	10	2	7	1	12	2	19	8	21	1
Sunny Season	9	3	4		10		7	2	5	1	10	1	18	7	19	1

## CIRRO-CUMULUS.

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
January . . . .	1		1						2							
February . . .													4		1	1
March . . . . .					1	2	1		1	4	4		1	1	1	
April . . . . .		1	2	2	3	1	3		4		8				1	1
May . . . . .	1		4	1	12	3	8	1	4		6	1	2	1	6	2
June . . . . .	10	5	5		3		2	3	5		2		4	6	10	3
July . . . . .	3	4	3	1			3		3		4	1	13	4	6	1
August . . . .	2	2	3	1			4	2	1		1	1	7	2	7	2
September . .	1			3			2		1		4	1	4	2	3	
October . . . .		4				1	3		1							
November . .	1		1									1				
December . .			1						3				1			1
Year . . . . .	19	16	20	8	19	7	26	6	25	4	29	5	36	16	35	11
Sunny Season	16	12	17	5	18	4	20	6	17	0	21	3	26	13	30	9

## LOWER CLOUDS.

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
January . . . .							3	1	2		1		1			
February . . .											1		3		2	
March . . . . .							2	1	3	2	8		2	1	3	
April . . . . .		1	12		9	3	15	1	7	2	8		1			
May . . . . .	3		2	3	14	5	6	1	7	1		2	3	1	5	1
June . . . . .	12	4	6		2	1	5	2	8	3	3	6	2	6	9	2
July . . . . .	2	1	1				6		1	3		2	11	2	9	2
August . . . .	7		3	1	7	2	2	2	1	2	12	1	10		17	
September . .	5	2	4		4		6	1	5	4	3	2	3	3	8	1
October . . . .					4	5	8	1	3	1	1				2	1
November . .		1			1								1		1	1
December . .			1					1								
Year . . . . .	29	9	29	4	41	16	53	11	37	18	37	13	37	13	56	8
Sunny Season	24	6	24	4	32	11	34	6	24	11	23	11	27	9	40	5

The resultant direction for the sunny season becomes

Cirrus	S 15° E 4·8	Cirro-cumulus	N 46° W 28·7
Cirro-stratus	N 66° W 22·8	Lower clouds	N 60° W 7·7
Cirrus and cirro-stratus	N 74° W 25·4	Wind	S 23° E

The direction of the motion of the clouds is, on an average, from WNW or NW, while the resultant wind comes from SSE.

## CIRRUS BELTS.

The cirrus belts noted during the drift of the Fram, and their direction, are given in the following Table.

	N—S	NE—SW	E—W	SE—NW
1894	May 3. 10 p. m. " 4. p. m. Aug. 26. 4 p. m. " 28. 8 a. m.	May 6. 4 p. m. " 14. 6 p. m. " " 8 p. m. " " 8 p. m. June 3. 2.30 p. m. Oct. 26. 8 a. m. Nov. 7. 2 p. m.	Aug. 23. 2 p. m.	Apr. 20. 10 p. m. May 14. 10 p. m. June 8. 10 p. m. July 29. 4 p. m.
1895	Jan. 6. 2.15 p. m. April 20. 2 p. m. Oct. 9. 10 p. m.	Feb. 10. 4 p. m. March 30. 6 p. m. " " 8 p. m. April 18. 8 a. m. June 23. 4 p. m.	April 26. 6 p. m. Aug. 15. 10 a. m. " 26. 4 a. m.	Jan. 9. 8 a. m. " " 2 p. m. Feb. 10. 10 a. m. " " Noon March 6. 10 a. m. June 8. 6 p. m. " " 8 p. m. " " 10 p. m.
Sum	7	12	4	12

## PRECIPITATION.

For each month of the drift of the Fram, and for each observation-hour, the sum has been taken of the numbers of cases in which rain, snow, sleet or hail have been noted. These sums, divided by the whole number of observations made at the respective hour in the month, give a fraction representing the *probability of precipitation* for that hour. The following Table gives the diurnal period of this probability in thousandths, or per mille. For the months from October, 1893, to February, 1894, in which the observations were made only every fourth hour, the numbers for the intermediate hours have been interpolated. The numbers are (smoothed) deviations from the diurnal means.

### PROBABILITY OF PRECIPITATION. THE DIURNAL PERIOD.

		2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.
January	94-96	+ 25	+ 18	- 5	- 24	- 32	- 36	- 24	- 7	+ 5	+ 19	+ 33	+ 31
February	- -	- 8	- 7	+ 7	+ 20	+ 19	+ 12	- 4	- 14	- 13	- 8	+ 1	- 2
March	- -	- 34	- 39	- 10	+ 23	+ 18	- 4	- 6	- 4	+ 1	+ 20	+ 34	+ 7
April	- -	- 73	- 71	- 46	- 10	+ 24	+ 49	+ 66	+ 66	+ 46	+ 16	- 18	- 51
May	- -	- 36	- 62	- 31	+ 14	+ 11	+ 29	+ 46	+ 16	0	+ 11	+ 13	- 6
June	- -	- 11	- 27	- 36	+ 9	+ 34	+ 6	- 5	+ 11	- 7	+ 12	+ 6	- 13
July	- -	- 20	- 20	- 17	- 15	- 12	+ 7	+ 26	+ 26	+ 9	+ 12	+ 18	- 7
August	94-95	- 5	- 50	- 62	- 34	- 37	- 46	- 13	+ 15	+ 31	+ 63	+ 88	+ 51
September	- -	- 5	- 5	+ 7	+ 28	+ 28	+ 20	+ 3	- 14	- 18	- 14	- 14	- 14
October	93-95	- 12	- 30	- 23	- 8	- 12	- 22	- 7	+ 13	+ 12	+ 26	+ 44	+ 23
November	- -	- 19	- 5	+ 12	+ 25	+ 29	+ 15	- 10	- 22	- 19	- 2	+ 6	- 12
December	- -	- 22	- 21	+ 11	+ 32	+ 19	- 3	- 14	- 6	+ 5	+ 9	- 5	- 7

	2h	4h	6h	8h	10h	Noon	2h	4h	6h	8h	10h	Mnt.
Winter . . . . .	- 2	- 3	+ 4	+ 9	+ 2	- 9	- 14	- 9	+ 1	+ 7	+ 10	+ 7
Spring . . . . .	- 48	- 57	- 29	+ 9	+ 18	+ 25	+ 35	+ 26	+ 16	+ 16	+ 10	- 17
Summer . . . . .	- 12	- 32	- 38	- 13	- 5	- 11	+ 3	+ 17	+ 11	+ 29	+ 37	+ 10
Autumn . . . . .	- 12	- 13	- 1	+ 15	+ 15	+ 4	- 2	- 8	- 8	+ 3	+ 12	- 1
Year . . . . .	- 19	- 26	- 16	+ 5	+ 8	+ 2	+ 6	+ 7	+ 5	+ 14	+ 17	0

The diurnal period comes out somewhat different in the different months. The period of observation is rather short to give a trustworthy average for a single month; but the means for the seasons seem to deserve fair reliance. Pl. IX. 1 mm. = 1 per cent.

In *Winter* there are minima at 3 a. m. and at 2 p. m., and maxima at 8 a. m. and at 10 p. m. The range is 0.024.

In *Spring* the minimum occurs at 4 a. m., and the maximum at 2 p. m. The range is 0.092.

In *Summer* the minimum occurs at 6 a. m., and the maximum at 10 p. m. The range is 0.075.

In *Autumn* we have two minima, at 2 a. m., and at 5 p. m., and two maxima, at 9 a. m. and at 10 p. m. The range is 0.028.

The early morning hours in all seasons have the least precipitation, and as shown above, p. 513, generally the least amount of cloud. At 10 p. m. winter, summer and autumn have a maximum. Winter and autumn have minima in the afternoon, spring has a maximum at the same time. The diurnal periods of the amount of cloud and of the probability of precipitation are not coincident.

#### THE ANNUAL PERIOD.

The following Table shows the mean values of the probability of precipitation for the different months.

	January	February	March	April	May	June
1894	0·075	0·173	0·078	0·150	0·169	0·094
95	0·086	0·062	0·022	0·033	0·150	0·267
96	0·250	0·218	0·282	0·286	0·239	0·180
Mean	0·137	0·151	0·127	0·156	0·186	0·180
Smoothed	0·128	0·141	0·140	0·156	0·177	0·179
	July	August	September	October	November	December
1893				0·118	0·061	0·032
94	0·118	0·153	0·161	0·143	0·067	0·118
95	0·207	0·237	0·258	0·123	0·119	0·118
96	0·180					
Mean	0·168	0·195	0·210	0·128	0·082	0·089
Smoothed	0·178	0·192	0·186	0·137	0·097	0·099

Mean for the year 0·151

Minimum 0·097 November

Maximum 0·192 August

Range 0·095.

The march of the probability of precipitation from month to month runs nearly parallel with the march of the amount of cloud. Pl. IX. (1 mm.<sup>1</sup> = 1 p. c. t.).

#### WIND-ROSES FOR THE FREQUENCY OF PRECIPITATION.

The numbers in the following Table are the numbers (smoothed) of cases in which a fall of rain, snow, sleet or hail has been observed with the respective wind in the different months during the drift of Fram.

<sup>1</sup> On Plate IX, cm. should be mm.



	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	'94-'96	'94-'96	'94-'96	'94-'96	'94-'96	'94-'96	'94-'96	'94-'96	'94-'95	'93-'95	'93-'95	'93-'95
N	5.6	2.4	2.8	12.1	8.0	12.3	4.4	3.4	8.0	4.8	9.1	3.6
NNE	6.4	5.6	6.1	16.3	7.0	13.4	7.6	0.8	8.1	7.4	7.6	2.8
NE	7.8	8.8	9.9	18.3	10.1	11.8	10.5	2.3	9.0	11.1	7.0	3.2
ENE	8.5	9.0	9.0	18.4	15.6	14.1	8.6	6.6	9.1	11.4	6.3	3.6
E	8.0	7.5	8.4	21.3	24.6	17.4	8.4	13.6	9.5	13.6	3.0	4.7
ESE	11.9	9.8	13.3	25.6	28.0	17.5	11.4	16.4	7.5	18.3	2.0	11.4
SE	23.3	13.0	17.0	21.4	20.9	14.5	13.9	12.6	11.3	12.9	3.0	20.6
SSE	27.3	13.0	17.0	13.1	14.6	9.8	14.5	7.9	13.9	5.6	5.1	20.5
S	17.3	12.9	19.1	8.1	14.1	9.1	15.8	6.4	13.6	4.5	7.3	11.2
SSW	7.8	12.8	17.9	4.8	13.0	10.3	18.5	8.5	11.1	3.8	6.4	3.3
SW	5.1	11.1	9.9	2.4	9.1	9.6	17.8	13.9	9.9	3.6	4.6	0.8
WSW	3.3	7.9	3.6	0.8	7.1	8.9	14.4	17.1	9.5	4.9	3.6	0.6
W	0.9	4.9	1.1	0	6.9	11.1	14.9	15.3	8.3	5.8	2.3	0.6
WNW	0.1	3.8	1.1	0.1	7.4	14.3	12.0	15.6	7.4	6.3	1.4	0.9
NW	2.3	2.5	2.9	1.0	10.3	11.8	7.9	16.5	8.0	5.3	1.8	2.1
NNW	4.9	1.3	3.0	5.5	11.3	9.4	5.0	10.4	8.4	4.0	2.8	3.9
Calm	0	0	1	1	2	0	2	0	0	2	2	0

The most frequent winds with precipitation are southerly to south-easterly, in July and August south-westerly. The westerly winds are much less frequently attended with precipitation, and calms very seldom.

Taking the number of cases in which precipitation has been observed with a certain wind in a month, and dividing this number with the number of cases in which this wind has been observed in the same space of time, we get a number which gives an expression for the probability of precipitation with that wind. The following Table shows the result of such a computation.

## WIND-ROSES FOR THE PROBABILITY OF PRECIPITATION.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
N	0·07	0·03	0·05	0·29	0·21	0·19	0·06	0·09	0·15	0·15	0·22	0·09
NNE	0·17	0·27	0·21	0·18	0·08	0·24	0·17	0	0·25	0·13	0·08	0·03
NE	0·20	0·35	0·27	0·19	0·12	0·22	0·35	0·02	0·21	0·24	0·14	0·05
ENE	0·16	0·34	0·21	0·18	0·13	0·38	0·21	0·16	0·24	0·20	0·18	0·04
E	0·11	0·09	0·53	0·21	0·17	0·24	0·46	0·27	0·15	0·08	0·02	0·03
ESE	0·13	0·10	0·12	0·32	0·23	0·32	0·45	0·34	0·20	0·25	0·02	0·07
SE	0·32	0·20	0·22	0·23	0·17	0·23	0·23	0·36	0·29	0·10	0·05	0·21
SSE	0·32	0·17	0·20	0·14	0·20	0·10	0·19	0·22	0·42	0·06	0·05	0·24
S	0·14	0·22	0·18	0·07	0·44	0·17	0·18	0·15	0·33	0·08	0·18	0·18
SSW	0·08	0·26	0·30	0·61	0·34	0·13	0·20	0·14	0·23	0·12	0·10	0·01
SW	0·19	0·21	0·15	0·08	0·30	0·15	0·19	0·20	0·28	0·05	0·08	0·04
WSW	0·10	0·16	0·08	0	0·14	0·12	0·15	0·27	0·13	0·15	0·10	0·05
W	0	0·08	0·01	0	0·17	0·13	0·11	0·18	0·13	0·14	0·07	0·29
WNW	0	0·08	0	0	0·14	0·22	0·15	0·17	0·17	0·21	0·05	0·22
NW	0·01	0·04	0·16	0·01	0·20	0·14	0·08	0·21	0·13	0·13	0·04	0·07
NNW	0·11	0·02	0·16	0·08	0·30	0·10	0·15	0·17	0·27	0·06	0·05	0·27
Calm	0	0	0·07	0·08	0·20	0	0·13	0	0	0·07	0·08	0

	Winter	Spring	Summer	Autumn	Year
N	0·06	0·18	0·11	0·17	0·13
NNE	0·16	0·16	0·14	0·15	0·15
NE	0·20	0·19	0·20	0·10	0·17
ENE	0·18	0·17	0·25	0·21	0·20
E	0·08	0·30	0·32	0·08	0·20
ESE	0·10	0·22	0·37	0·16	0·21
SE	0·24	0·21	0·27	0·15	0·22
SSE	0·24	0·18	0·17	0·18	0·19
S	0·18	0·23	0·17	0·20	0·20
SSW	0·12	0·42	0·16	0·15	0·21
SW	0·15	0·18	0·18	0·14	0·16
WSW	0·10	0·07	0·18	0·13	0·12
W	0·12	0·06	0·14	0·11	0·11
WNW	0·10	0·05	0·18	0·14	0·12
NW	0·04	0·12	0·14	0·10	0·10
NNW	0·13	0·18	0·14	0·13	0·15
Calm	0	0·12	0·04	0·07	0·06

The Table and the diagrams on Pl. IX (1 mm. = 10 per cent.<sup>1</sup>) show that the greatest probability of precipitation belongs generally to winds from the south-eastern quadrant, but without any regular distribution in the different months. The least probability is found with winds from the north-eastern and north-western quadrants. All winds may be attended by precipitation. Calms are very seldom accompanied by precipitation. The formation of rain and snow goes on more easily and frequently with wind than in calm weather. The following Table sums up the results:

	Minimum			Maximum		
Winter . . .	NW	0·04;	E 0·08	SSE	0·24;	NE 0·20
Spring . . .	WNW	0·05;	SSE 0·18	SSW	0·42;	E 0·30
Summer . .	N	0·11		ESE	0·37	
Autumn . .	E	0·08;	NW 0·10	ENE	0·21;	S 0·20
Year . . . .	NW	0·10		SE	0·22	

#### NUMBER OF DAYS WITH PRECIPITATION.

The following Tables show the number of days on which rain, snow, or both rain and snow have been observed.

	January. Snow only			February. Snow only			March. Snow only			April. Snow only			May.			June.		
	●	*	●*	●	*	●*	●	*	●*	●	*	●*	●	*	●*	●	*	●*
1894	6			11			9			14			2	12	2	4	2	8
95	12			8			3			5			0	19	0	2	10	13
96	15			15			27			19			0	21	4	2	11	7
Mean	11·0			11·3			13·0			12·7			0·7	17·3	2·0	2·7	7·7	9·3
	July.			August.			September.			October.			November. Snow only			December. Snow only		
	●	*	●*	●	*	●*	●	*	●*	●	*	●*	●	*	●*	●	*	●*
1893	-	-	-	-	-	-	-	-	-	0	9	1	6			5		
94	9	5	7	5	8	3	0	16	4	0	18	0	9			10		
95	6	7	11	5	13	4	17	6	0	0	15	0	11			11		
96	6	4	7	-	-	-	-	-	-	-	-	-	-			-		
Mean	7·0	5·3	8·3	5·0	10·5	3·5	8·5	11·0	2·0	0	14·0	0·3	8·7			8·7		

<sup>1</sup> On Pl. IX is written 1 per cent. instead of 10 per cent.

Hence we find the mean number of days in each month and in the years, on which rain falls, and on which snow falls, and the mean number of days with precipitation.

	Number of days with		
	Rain	Snow	Precipitation
January . . . . .	0	11·0	11·0
February . . . . .	0	11·3	11·3
March . . . . .	0	13·0	13·0
April . . . . .	0	12·7	12·7
May . . . . .	2·7	19·3	20·0
June . . . . .	12·0	17·0	19·7
July . . . . .	15·3	13·6	20·6
August . . . . .	8·5	14·0	19·0
September . . . . .	10·5	13·0	21·5
October . . . . .	0·3	14·3	14·3
November . . . . .	0	8·7	8·7
December . . . . .	0	8·7	8·7
Year . . . . .	49·3	156·6	180·5

Pl. IX (1 mm. = 1 day).

Rain occurs only in the 6 months from May to October, and July has the greatest number of rainy days.

Snow occurs in every month, and May has the greatest number of snowy days, November and December the least.

The number of days with precipitation has an annual period, with a minimum in November and December, and maxima in May, July and September. The snowy days are of more than three times the frequency of the rainy days in the whole year. The number of days in the year with precipitation being 180, every alternate day is, on an average, a day with snow or rain.

The first and last days in the year with rain are

	First day	Last day	Length of Period
1893		October 1 <sup>st</sup>	
94	May 19 <sup>th</sup>	September 16 <sup>th</sup>	121 days
95	June 15 <sup>th</sup>	September 30 <sup>th</sup>	108 —
96	May 21 <sup>st</sup>		
Mean	May 29 <sup>th</sup>	September 24 <sup>th</sup>	

In 1895, the rainy season was rather late.

*Hail* was observed only 5 times, viz. in 1894, June 10 and July 11, in 1895, July 6 and 7, and in 1896, March 27.

Counting the number of cases in which the precipitation has lasted one day, two days, etc. (of course with interruptions during the 24 hours), and taking the means for one month, we get the numbers in the following Table.

NUMBER OF PERIODS LASTING

Days	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Jan. . .	1·3	1·3	0	0·7	0	0	0	0	0	0	0	0	0	0	0·3	0
Febr. . .	1·7	1·3	1·7	0	0	0·3	0	0	0	0	0	0	0	0	0	0
Mar. . .	1·0	0·3	0·7	0·3	0	0	0	0·3	0	0	0	0	0	0	0	0·3
Apr. . .	2·7	1·0	0	0·3	0	0	0	0	0·3	0	0·3	0	0	0	0	0
May . .	1·3	0·7	0·7	0·7	1·0	0·3	0	0	0	0	0	0	0	0	0	0·3
June . .	2·0	1·3	0·7	0·7	0·3	0	0	0·7	0	0·3	0	0	0	0	0	0
July . .	4·0	1·3	0·3	1·0	0	0·3	0	0	0·3	0	0	0·3	0	0	0	0
Aug. . .	1·5	0·5	0	0·5	0	1·0	0	0·5	0·5	0	0	0	0	0	0	0
Sept. . .	2·5	0	0·5	1·0	0·5	0	0	0	0·5	0	0	0	0·5	0	0	0
Oct. . .	1·7	1·3	0	0·7	1·0	0·3	0	0	0	0	0	0	0	0	0	0
Nov. . .	3·3	1·7	0·7	0	0	0	0	0	0	0	0	0	0	0	0	0
Dec. . .	1·7	1·3	0·3	0·3	0	0·3	0	0	0	0	0	0	0	0	0	0
Year . .	24·7	12·0	5·6	6·2	2·8	2·5	0	1·5	1·6	0·3	0·3	0·3	0·5	0	0·3	0·6

We have the months October to July for 3 years, and August and September for 2 years. Thus, e. g. 1·0 signifies for March 3 cases in 3 years, 0·3 one case in 3 years, 1·5 for August, 3 cases in 2 years, etc.

The most frequent period is that of one day. The frequency of the periods decreases with the length of the period. The frequency of the 16 days' period is rather remarkable, but the number of years is too small to give more exact statistics.

The following Table has been computed by *Köppen's Method*.<sup>1</sup>

For a certain period, e. g. a month, let

$n$  be the total number of observations made

$r$  . . . . . of precipitation

$N$  . . . . . hours in the period (month)

$d$  . . . . . number of days with precipitation (rain or snow).

<sup>1</sup> Oesterreichische Zeitschrift für Meteorologie f. 1880 p. 362 and Meteorologische Zeitschrift f. 1885 p. 10.

We then have

$\frac{r}{n}$  the probability of precipitation

$\frac{r}{n} N$  the total duration of precipitation in hours

$\frac{r}{n} \frac{N}{d}$  the average duration (in hours) of precipitation in a day of precipitation.

	$\frac{r}{n}$	$N$	$\frac{r}{n} N$	$d$	$\frac{r}{n} \frac{N}{d}$
January . . . . .	0·137	744	101·9	11·0	9·27
February . . . . .	0·151	672	101·5	11·3	8·98
March . . . . .	0·127	744	94·5	13·0	7·27
April . . . . .	0·156	720	112·3	12·7	8·84
May . . . . .	0·186	744	138·4	20·0	6·92
June . . . . .	0·180	720	129·6	19·7	6·58
July . . . . .	0·168	744	125·0	20·6	6·04
August . . . . .	0·195	744	145·1	19·0	7·64
September . . . . .	0·210	720	151·2	21·5	7·03
October . . . . .	0·128	744	95·2	14·3	6·66
November . . . . .	0·082	720	59·0	8·7	5·79
December . . . . .	0·089	744	66·2	8·7	7·61
Year . . . . .	0·151		1320·0	180·5	7·39

Pl. IX (5 mm. = 1 hour).

The duration of precipitation in a day of precipitation is, on an average, 7·38 hours.<sup>1</sup> There is an annual period with minima in November, July (and March) and maxima in January, April (and August). Taking the means for the seasons, we get

	Winter	Spring	Summer	Autumn
$\frac{r}{n} \frac{N}{d}$	8·62	7·76	6·82	6·54

Maximum in winter, minimum in autumn.

<sup>1</sup> Christiania has 7·1 hours, the west coast of Norway more than 13 hours.

### THE AMOUNT OF PRECIPITATION.

The expedition had a rain-gauge and a snow-gauge, and observations were made with them. As may have been seen from the remarks below the Tables of observation, the snow was very often observed drifting from the ground and the observations of the snow-gauge were consequently erroneous. It is therefore of no use to discuss them. The observations made with the rain-gauge can scarcely be called satisfactory, as snow-falls occur in every month, and oftener than rain. The following observations have been extracted from the original journal of observations.

1894. June	12.	7 p. m.	1·4 mm.	1895. June	25.	10 a. m.	0·25 mm.
- "	22.	8 a. m.	1·5 -	- "	28.	6 p. m.	1·2 -
- "	23.	2 p. m.	0·2 -	- "	29.	10 p. m.	0·3 -
- "	27.	8 p. m.	0·3 -	- July	1.	8 a. m.	1·5 -
- July	3.	10 a. m.	0·25 -	- "	2.	4 p. m.	0·3 -
- "	12.	8 a. m.	3·0 -	- "	6.	6 p. m.	4·4 -
- "	19.	8 a. m.	0·25 -	- "	7.	8 a. m.	2·9 -
- "	20.	8 a. m.	4·1 -	- "	10.	2 p. m.	0·6 -
- August	18.	8 a. m.	0·3 -	- "	27.	10 a. m.	1·2 -
- "	19.	8 a. m.	1·75 -	- "	30.	8 a. m.	19·7 -
				- August	19.	10 a. m.	2·5 -
				- September	13.	Noon	1·6 -

The totals are

	June	July	August	September
1894	3·4 mm.	7·6 mm.	2·05 mm.	
1895	3·25 -	29·1 -	2·5 -	1·6 mm.
Mean	3·32 -	18·35 -	2·27 -	0·8 -

On the 29<sup>th</sup> July, 1895, it rained and snowed the whole day, and the quantity measured on the 30<sup>th</sup> at 8 a. m. was 19·7 millimetres.

## F O G.

The probability of Fog has been computed in the same manner as that of precipitation (p. 529). In the winter months, December, January and February, no fog has been observed. As the single months showed no very regular march of the diurnal period of the frequency of fog, I have taken the means for each of the three other seasons in order to find the character of this period.

### DIURNAL PERIOD OF THE PROBABILITY OF FOG.

Deviations from Mean. Tenthousandths. Smoothed.

Hour	Spring	Summer	Autumn
2 a. m.	- 24	+ 182	+ 13
4	- 15	- 9	- 47
6	- 15	- 122	- 79
8	+ 13	- 122	- 84
10	+ 46	- 86	- 62
Noon	+ 21	- 189	- 57
2	- 24	- 271	- 7
4	- 24	- 153	- 6
6	- 6	0	- 6
8	+ 21	+ 131	+ 122
10	+ 21	+ 298	+ 141
Mnt.	- 15	+ 343	+ 72
Mean	0.0124	0.1388	0.0253

Spring has minima at midnight and at 3 p. m.

— - maxima - 10 a. m. - - 9 p. m. Range 0.0070

Summer - a minimum at 2 p. m.

— - - maximum - midnight. — 0.0614

Autumn - - minimum - 9 a. m.

— - - maximum - 10 p. m. — 0.0225



In summer and autumn, the range is nearly as great as that of the probability of precipitation.

Pl. IX. (1 mm. = 1 per cent.).<sup>1</sup>

#### THE ANNUAL PERIOD OF THE PROBABILITY OF FOG.

March	April	May	June	July	August	Sept.	Oct.	Nov.
0·011	0·014	0·012	0·076	0·194	0·147	0·058	0·019	0·004

Pl. IX (1 mm. = 1 per cent.).<sup>2</sup>

Winter	Spring	Summer	Autumn
0·000	0·012	0·139	0·023

The maximum lies in July, and is as great as the maximum of the probability of precipitation (0·192 in August).

#### NUMBER OF DAYS WITH FOG.

	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Year
1894			3	11	18	16	7	0	1	
95		1	2	2	20	16	13	9	1	
96	5	1	1	18	23					
Mean	1·7	0·7	2·0	10·3	20·3	16·0	10·0	4·5	1·0	66·5

The winter months have no fog. The spring months very little. The summer months have fog more than every alternate day, particularly July. September has a good many, October few, and November extremely few days with fog. Pl. IX.<sup>3</sup> (1 mm. = 1 day).

<sup>1</sup> On Pl. IX has been written erroneously 1 mm. = 10 per cent.

<sup>2</sup> On Pl. IX 1 cm. has been written instead of 1 mm.

<sup>3</sup> Mark errors for June and July in the curve.

### OPTICAL PHENOMENA.

The following List comprises the number of days on which Solar Halos, Mock Suns, Lunar Halos, Mock Moons, Columns of Light above the sun or moon and Water-sky have been observed.

		Solar Halos	Mock Suns	Lunar Halos	Mock Moons	Columns Sun    Moon		Water- sky
January	1894			2				
	95			3				
	96			3				
	Sum			8				
February	1894			3				
	95			1				
	96			0				
	Sum			4				
March	1894	0	1					
	95	1	3	4	3			
	96	0	0	0	0			
	Sum	1	4	4	3			
April	1894	1	4					
	95	0	4					
	96	7	3					
	Sum	8	11					
May	1894	0						0
	95	1						0
	96	2						9
	Sum	3						9
June	1894	0	0					14
	95	0	0					16
	96	1	1					8
	Sum	1	1					38

		Solar Halos	Mock Suns	Lunar Halos	Mock Moons	Columns Sun    Moon		Water- sky
July	1894	1	0					21
	95	1	1					22
	96	0	0					3
	Sum	2	1					46
August	1893							
	94							7
	95							3
	Sum							10
September	1893		0	2		0		
	94		1	0		1		8
	95		2	0		0		9
	Sum		3	2		1		17
October	1893		1	3		0		
	94		1	3		1		
	95		0	0		0		
	Sum		2	6		1		
November	1893			0	1		1	
	94			5	3		1	
	95			4	1		0	
	Sum			9	5		2	
December	1893			1			0	
	94			9			1	
	95			3			0	
	Sum			13			1	

The solar halos and mock suns are summer phenomena, the lunar halos and mock moons winter phenomena.

The water-sky, indicating the presence of open water, lanes, or pools in the ice-pack, is a distinct summer phenomenon, which has its greatest frequency in July. Pl. IX.

## THE TEMPERATURE OF THE POLAR ICE.

Professor NANSEN has sent me the following note about the observations of the temperature of the drifting polar ice made during the drift of the Fram.

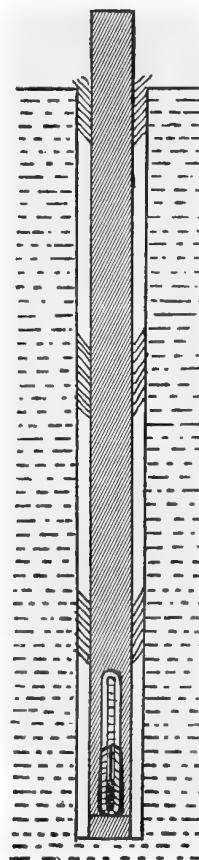
“I considered it very desirable that the seasonal changes in the thickness of the ice covering the Polar Sea, as well as the seasonal changes in the temperature at various depths in the ice, should be systematically investigated during the years the expedition lasted. Such systematic investigations had not, to my knowledge, previously been made, and they might evidently give very valuable results, if only satisfactory methods for the observations could be found.

For *measurements of the thickness of the ice*, long, specially-constructed augers were used, with diameters of 2 inches (5·1 cm.) and 4 inches (10·1 cm.). The difficulty of these investigations proved to be that ice-pressure on several occasions disturbed the ice, so that the investigations could not be carried on at the same place during the whole expedition; and as the ice-floes were often of different ages, their thickness might vary a good deal, even though they were flat and not disturbed by ice-pressure. We did not therefore succeed in getting a continuous series of observations of the growth of the same ice-floe during the whole drift of the Fram; but our observations, when properly worked up, will nevertheless give valuable information as to the formation of the ice and its relation to the temperature of the air.

### *Observations of the Temperature of the Ice at Various Depths.*

For these observations I had ordered 3 “earth-thermometers” from NEGRETTI & ZAMBRA, as described in their large illustrated catalogue, § 57 (p. 42. See also figs. 48, 49). The thermometers (one maximum thermometer, and one slow-action thermometer) were lowered into bore-holes in the ice;

but as they would easily stick fast there when left for some time, they were often difficult to recover, and had sometimes to be dug out.<sup>1</sup> During an operation of this kind, one of the thermometers was broken.<sup>2</sup> I did not therefore, on the whole, consider the above method satisfactory. After several experiments, I adopted the following method. The bulbs of some ordinary thermometers (Söderbergs sling-thermometers) used for meteorological observations were enclosed in thick lumps of paraffine-wax. These thermometers were mounted in suitable holes at the ends of round wooden rods (in a manner similar to that of bath-thermometers in their wooden mounting). The rods were at least 20 cm. longer than the bore-holes in which they were placed, in order to give a handle by which they could easily be hauled up. The rods at several places were surrounded by muffs or cuffs of reindeer-skin with thick hair in order to prevent vertical circulation of air in the bore-holes. One such muff was placed close above the thermometer, another at the surface of the ice, and if the bore-holes were deep, one or two in between. The arrangement was as shown in the figure. In cold weather, the reindeer-hair of these muffs might freeze fast to the sides of the holes, but by a little force the rods could be torn loose. The observations met with most difficulties during the warm season, when the temperature of the ice was relatively high. The ice was then very soft and viscous, and in a little while the holes would become narrower owing to the slow viscous movement of the ice, and had to be rebored at certain intervals. It often happened that the rods then stuck in their holes, and had to be dug out. The rods with the thermometers were always left in their holes in order to give the thermometers the necessary time for accommodation. For each observation the rods were hauled



<sup>1</sup> As the bore-holes had to be fairly narrow, the thermometers would easily freeze fast, or the plastic or viscous ice would often, after a few days, close round the thermometer, especially during the summer.

<sup>2</sup> I believe this was in March, 1894, but unfortunately I have not been able to find a mention of the accident in my journals.

up, the temperature-reading was taken *at once, and the rods were again put down*. The depth of the observations was measured from the surface of the ice to the bulb of each thermometer. There was as a rule only very little snow round the holes, and that was much trampled down.

I received the impression that the observations on the whole gave fairly trustworthy results, but one source of error is the brine contained in the ice, which was apt to fill the bottom of the holes, especially the deeper ones, even during the coldest season; during the summer all holes were filled with briny or saline water, the salinity of which, however, decreased inversely as the temperature. As this brine would come from the pores of the ice and run down to the bottom of the holes, it is possible that during winter-time, when the temperature of the ice increased from the surface downwards, brine from the upper, coldest layers of the ice might sink down to the bottom of the hole, where the temperature was much higher, and as the freezing point of this very saline brine would be lower than the temperature of the bottom of the hole, it might influence the latter, and the temperature-reading might become too low.<sup>1</sup> In the warm season, when the temperature of the ice near the surface was higher than that lower down, the brine would naturally be less saline, and consequently lighter in the upper layers than in the deeper, as the salinity of the brine varied with the temperature of the ice: the freezing point of the brine would always be the same as that of the ice. In the lowest layers of the ice, below the depth of the minimum temperature, the temperature-reading might naturally become too low in the above manner, even in the summer. Although wood conducts heat relatively slowly, it is possible that the temperature-readings from the small depths near the surface of the ice, may have been slightly influenced in this manner, especially during the summer, when the upper ends of the rods projecting above the surface of the ice were much warmed by the radiation of heat from the sun. A still greater source of error might be due to the fact that in small depths

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<sup>1</sup> This disturbing influence of the brine might have been avoided by a water-tight iron tube, completely filling the bore-hole, and sufficiently strong to withstand the pressure of the plastic or viscous ice, but unfortunately we had no material for making such tubes, and moreover iron tubes might also have a disturbing influence upon the temperature-readings by conducting the heat. If tubes of this kind were to be used, I believe it would be better to make them of a material that conducted heat slowly, e. g. glass, if it were not too easily broken.

the heat-rays from the sun or the sky penetrating the ice and the melting water (filling the holes), would be absorbed by the dark wood enclosing the thermometers, and that thus the temperature-readings became too high. This may explain the fact that temperatures above zero centigrade were observed in depths near the surface of the ice during summer.

The observations of the ice-temperatures were made by myself until the middle of April, 1894. As I then thought I had formed a fairly satisfactory method of making them, I asked Capt. S. SCOTT HANSEN to undertake them as a part of the regular meteorological observations. During 1894, and I believe until the summer of 1895, these observations were made on a flat ice-floe on the port side of the Fram. This floe was formed on a wide, open water-lane about October 27th, 1893."

*Fridtjof Nansen.*

The thermometers used for the observations of the temperature of the ice had been compared with the standard thermometer of the Meteorological Institute before the starting of the expedition. During the drift of the Fram, they were several times compared with standards and with each other, and after the return of the expedition, the thermometers then remaining were compared with the standards of the Meteorological Institute. The corrections were found to vary somewhat with the time, and may be uncertain up to some tenths of a degree C. The circumstances did not always allow of the same thermometers being used in the same depth.

The holes into which the rods with the thermometers were put down required frequent cleaning, and they very often had fluid water (brine) in their lower part, this being sometimes pumped out. The place of the thermometers was changed several times, new holes being bored on the same ice-floe or the whole system removed to a new floe.

The thickness of the floe in which the thermometers stood, was not constant. The numbers noted are the following:

1894.	January	27.	1·37	metre				
"	February	19.	1·87	"	Snow	4	cm.	
"	March	10.	2·01	"	"	4	"	
"	April	6.	2·22	"	"	2·8	"	
"	"	10.	2·28	"	"	2·8	"	

1895. May 30. 2·68 metres

„ August 30. 3·10 „

The two last figures refer to different floes.

The observations of the temperature of the “surface” are not very trustworthy. They may give the temperature of the snow, in which the thermometers were imbedded or a temperature influenced by radiation from or towards the sky (or sun).

From the middle of April, 1894, to the end of June of the same year, the ice-temperatures were observed at 8 a. m. and at 8 p. m. The mean is taken in the tables. Subsequently generally at 8 a. m. The following Tables give the observed temperatures, corrected for the errors of the thermometers.

1894. APRIL.

Day.	8 a. m.					8 p. m.				
	Surf.	0·4 m.	0·8 m.	1·2 m.	1·6 m.	Surf.	0·4 m.	0·8 m.	1·2 m.	1·6 m.
3	°	°	−20·8	−16·2		°	°	°	°	°
4			−19·5	−16·0						
5			−20·3	−16·5						
6			−20·5	−16·1						
9			−19·2	−15·9						
10			−18·1	−15·5						
18		−15·6	−13·7	−11·8	−8·8	−18·4	−16·3	−13·7	−11·7	−8·6
19	−14·5	−15·8	−13·8	−11·5	−8·5	−16·6	−15·3	−13·7	−11·4	−8·5
20	−18·4	−15·0	−13·4	−11·4	−8·3	−19·9	−15·5	−13·3	−11·3	−8·3
21	−19·9	−15·9	−13·3	−11·2	−8·2	−21·5	−16·1	−13·3	−11·2	−8·0
22	−20·8	−16·5	−13·5	−10·9	−7·9	−21·7	−16·7	−13·6	−11·1	−8·1
23	−22·0	−17·0	−13·7	−11·2	−8·0	−20·0	−16·9	−13·8	−11·2	−7·6
24	−17·7	−16·8	−13·8	−11·1	−7·6	−19·9	−16·7	−13·9	−11·4	−7·5
25	−16·2	−16·8	−13·9	−11·4	−7·6	−17·6	−16·3	−13·7	−11·3	−7·5
26	−19·6	−16·4	−13·8	−11·2	−7·7	−18·3	−16·3	−13·8	−11·2	−7·7
27	−14·1	−16·0	−13·8	−11·3	−7·7	−14·7	−15·7	−13·7	−11·2	−7·6
28	−14·5	−15·1	−13·6	−11·1	—	−14·1	−14·8	−13·4	−10·9	−7·5
29	−13·8	−14·7	−13·1	−11·0	−7·7	−13·4	−14·4	−13·0	−11·0	−7·5
30	−15·0	−14·3	−12·8	−10·9	−7·5	−15·2	−14·3	−12·6	−10·7	−7·4
Mean 18–30	−17·2	−15·8	−13·5	−11·2	−7·9	−17·8	−15·8	−13·5	−11·2	−7·8



1894. MAY.

Day.	8 a. m.					8 p. m.				
	Surf.	0·4 m.	0·8 m.	1·2 m.	1·6 m.	Surf.	0·4 m.	0·8 m.	1·2 m.	1·6 m.
1	- 14·6	- 14·2	- 12·5	- 10·7	- 7·3	- 15·0	- 14·1	- 12·4	- 10·5	- 7·2
2	- 14·4	- 13·9	- 12·2	- 10·3	- 7·2	- 15·1	- 13·8	- 12·2	- 10·2	- 7·2
3	- 16·3	- 13·7	- 12·2	- 10·2	- 7·1	- 14·0	- 13·7	- 12·1	- 10·2	- 7·0
4	- 14·8	- 13·5	- 12·0	- 10·1	- 7·0	- 13·8	- 13·3	- 11·9	- 10·1	- 7·0
5	- 11·3	- 13·2	- 11·8	- 10·0	- 7·0	- 11·7	- 13·1	- 11·6	- 10·0	- 6·9
6	- 11·7	- 12·9	- 11·6	- 9·7	- 6·7	- 11·5	- 12·7	- 11·5	- 9·6	- 6·7
7	- 9·9	- 12·3	- 11·5	- 9·6	- 6·7	- 7·4	- 11·5	- 11·0	- 9·1	- 6·9
8	- 10·2	- 10·7	- 10·9	- 9·1	- 6·1	- 8·2	- 10·6	- 10·7	- 9·1	- 6·2
9	- 8·5	- 10·2	- 10·4	- 8·7	- 6·3	- 6·4	- 9·9	- 10·2	- 8·7	- 6·4
10	- 7·2	- 9·5	- 9·7	- 8·7	- 6·3	- 8·6	- 9·3	- 9·7	- 8·7	- 6·3
11	- 11·5	- 9·4	- 9·4	- 8·6	- 6·0	- 10·3	- 9·7	- 9·3	- 8·3	- 6·2
12	- 11·0	- 9·9	- 9·1	- 8·3	- 6·0	- 11·6	- 10·1	- 9·0	- 8·3	- 6·0
13	- 12·2	- 10·7	- 9·1	- 8·2	- 6·0	- 13·7	- 11·0	- 9·1	- 7·9	- 5·9
14	- 12·3	- 11·2	- 9·1	- 7·6	- 5·8	- 11·8	- 11·2	- 9·2	- 7·7	- 5·8
15	- 12·1	- 11·2	- 9·2	- 7·9	- 5·6	- 12·0	- 11·1	- 9·3	- 7·8	- 5·5
16	- 11·2	- 10·9	- 9·9	- 8·0	- 5·6	- 9·7	- 10·4	- 9·4	- 7·6	- 5·7
17	- 9·2	- 10·2	- 9·2	- 8·0	- 5·5	- 8·6	- 9·9	- 9·0	- 7·9	- 5·6
18	- 8·5	- 9·7	- 9·0	- 7·6	- 5·6	- 7·8	- 9·3	- 8·8	- 7·7	- 5·5
19	- 6·3	- 9·0	- 8·9	- 7·6	- 5·5	- 6·3	- 8·7	- 8·7	- 7·5	- 5·4
20	- 5·5	- 8·2	- 8·5	- 7·3	- 5·4	- 4·5	- 7·9	- 8·5	- 7·2	- 5·4
21	- 6·4	- 7·4	- 8·3	- 7·2	- 5·3	- 5·5	- 7·1	- 8·3	- 7·0	- 5·3
22	- 4·4	- 7·1	- 7·9	- 6·9	- 5·2	- 5·5	- 6·8	- 7·4	- 6·8	- 5·0
23	- 4·4	- 6·7	- 7·2	- 6·8	- 5·1	- 3·5	- 6·5	- 7·1	- 6·6	- 5·1
24	- 1·6	- 6·2	- 6·8	- 6·2	- 5·0	- 1·4	- 5·8	- 6·8	- 6·4	- 4·7
25	- 0·8	- 5·5	- 6·5	- 6·2	- 4·9	- 2·4	- 5·2	- 6·3	- 6·2	- 4·7
26	- 3·8	- 5·0	- 6·2	- 6·0	- 4·7	- 2·8	- 4·8	- 6·0	- 6·0	- 4·7
27	- 2·5	- 4·8	- 5·9	- 5·9	- 4·7	- 2·4	- 4·6	- 5·6	- 5·7	- 4·6
28	- 0·2	- 4·6	- 5·5	- 5·7	- 4·6	- 2·0	- 4·5	- 5·5	- 5·5	- 4·5
29	- 2·9	- 4·2	- 5·3	- 5·5	- 4·3	- 2·0	- 4·1	- 5·1	- 5·4	- 4·3
30	- 3·3	- 4·1	- 5·1	- 5·4	- 4·3	- 3·1	- 4·1	- 5·1	- 5·1	- 4·2
31	- 1·7	- 4·0	- 4·9	- 5·1	- 4·0	- 1·7	- 4·0	- 4·8	- 5·1	- 4·0
Mean	- 8·1	- 9·2	- 8·9	- 7·8	- 5·7	- 7·8	- 9·0	- 8·8	- 7·7	- 5·7

1894. JUNE.

Day.	8 a. m.					8 p. m.				
	Surf.	0.4 m.	0.8 m.	1.2 m.	1.6 m.	Surf.	0.4 m.	0.8 m.	1.2 m.	1.6 m.
1	-2.2	-3.9	-4.6	-4.9	-3.9	-1.5	-3.7	-4.6	-4.9	-3.9
2	-2.3	-3.6	-4.5	-4.9	-4.0	-3.5	-3.6	-4.4	-4.9	-4.0
3	-3.2	-3.5	-4.3	-4.6	-3.8	-2.4	-3.6	-4.2	-4.5	-3.8
4	-4.5	-3.6	-4.2	-4.5	-3.7	-4.5	-3.6	-4.2	-4.5	-3.5
5	-3.7	-3.7	-4.1	-4.4	-3.6	-3.5	-3.7	-4.1	-4.4	-3.5
6	-4.4	-3.7	-4.0	-4.2	-3.5	-1.2	-3.8	-4.0	-4.2	-3.6
7	-3.0	-3.7	-3.9	-4.1	-3.6	-0.8	-3.6	-3.9	-4.1	-3.5
8	0.0	-3.5	-3.8	-4.0	-3.5	-1.4	-3.4	-3.7	-4.0	-3.5
9	-1.7	-3.2	-3.8	-3.7	-3.4	-1.1	-3.2	-3.8	-3.7	-3.4
10	-1.3	-3.1	-3.7	-3.8	-3.3	0.8	-3.0	-3.7		-3.2
11	0.8	-2.3	-3.6	-3.9	-3.1			-2.4		
12							-0.2	-2.4	-2.7	-1.7
13		-0.5	-2.1	-2.5	-1.9		-0.8	-2.0	-2.1	-2.0
14		-0.2	-2.4		-2.0				-3.5	-3.5
15						-0.3	-1.1	-1.6	-3.1	-2.5
16	0.0	-0.5	-1.6	-2.9	-2.5	0.0	-0.5	-1.9	-2.4	-2.3
17	0.2	-0.5	-1.7	-2.1	-2.0	-0.7	-0.5	-1.5	-2.3	-1.9
18	0.0	1.2	-1.2	-1.7	-1.9	0.0	0.6	-0.8	-1.9	-2.1
19	0.1	0.6	-0.9	-1.6	-2.0	0.1	0.1	-1.1	-1.7	-1.6
20	0.1	0.3	-0.3	-0.9	-0.4	0.1	0.1	-0.7	-1.4	-0.5
21	0.2	0.4		-1.5	-0.7	0.0	-0.2	-0.3	-1.0	-0.3
22	0.1	-0.3	-0.4	-1.0	-0.2	0.1	-0.3	-0.5	-0.1	-0.4
23	-0.1	-0.3	-0.6	-0.4	-1.1	0.1	-0.5	-0.7	-0.6	-1.2
24	0.0	-0.7	-0.9	-1.2	-1.3	0.0	-0.7	-1.0	-1.6	-1.5
25	0.2	-0.6	-0.8	-1.6		0.1	-0.5	-0.6	-0.7	-0.9
26	0.0	-0.5	-0.8	-1.0	-1.8					
27	0.1	-0.7	-1.2	-1.5	-1.2					
28	0.0	-1.0	-1.1	-1.6	-1.4					
29	0.2	-0.4	-1.0	-1.8	-1.5					
30	0.1	0.0	-0.4	-1.4	-1.1					
Mean	-0.9	-1.5	-2.3	-2.7	-2.3	-0.9	-1.7	-2.4	-2.8	-2.4

1894. JULY.

1894. OCTOBER.

Day.	8 a. m.					Day.	8 a. m.				
	Surf.	0'4 m.	0'8 m.	1'2 m.	1'6 m.		Surf.	0'4 m.	0'8 m.	1'2 m.	1'6 m.
1	0'1	0'2	- 0'8	- 1'3	- 1'1	1					
2	0'1	0'6	- 0'6	- 1'1	- 1'1	2					
3	0'1	- 0'4	- 0'8	- 1'2	- 1'3	3		- 6'7	- 1'0	- 0'7	
4	0'1	1'0	- 0'1	- 0'5	- 1'2	4					
5	0'1	0'6	0'0	- 0'6		5					
6	0'0	0'4	- 0'1	- 0'6		6					
7	0'0	0'4	- 0'1	- 0'6	- 0'7	7					
8	0'2	0'8	0'0	- 0'2	- 0'6	8					
9	0'2	0'7	- 0'2	- 0'6	- 0'6	9		- 8'3	- 1'1	- 1'0	
10	0'1	0'3	- 0'2	- 0'7	- 0'8	10					
11	0'1	0'4	- 0'2	- 0'4	- 0'4	11					
12	0'1	0'1	- 0'4	- 0'6		12					
13	0'1	0'7	- 0'5	- 0'5		13					
14	0'1	0'8	0'0	0'1	- 0'4	14					
15	0'1	0'8	- 0'3	0'4	- 0'6	15					
16	0'1	0'2	- 0'5	0'6	- 0'7	16					
17	0'1	0'1	- 0'2	0'0	- 0'6	17					
18	0'1	0'4	- 0'3	0'0	- 0'7	18		- 9'1	- 5'2	- 1'3	
19	0'0	0'1	- 0'2	- 0'3	- 0'8	19					
20						20					
21						21					
22						22					
23				- 0'3		23		- 11'7	- 7'1		
24						24					
25						25					
26						26		- 11'5	- 7'2		
27						27		- 12'4	- 7'7		
28						28		- 13'2	- 8'3		
29						29		- 13'3	- 8'4	- 5'1	
30				- 0'2		30		- 13'2	- 7'6		
31						31		- 13'3	- 8'6		
Mean	0'1	0'4	- 0'3	- 0'4	- 0'8			- 11'3	- 6'2	- 2'0	

1894. NOVEMBER.

1894. DECEMBER.

Day.	8 a. m.					Day.	8 a. m.				
	Surf.	0.4 m.	0.8 m.	1.2 m.	1.6 m.		Surf.	0.4 m.	0.8 m.	1.2 m.	1.6 m.
1		- 14.6	- 9.1	- 6.0		1		- 19.4	- 16.5	- 12.0	- 7.7
2		- 13.9	- 9.4	- 6.0		2		- 19.3	- 16.9	- 12.0	- 8.6
3			- 9.4	- 6.5		3		- 19.3	- 16.9	- 12.3	- 8.0
4		- 15.4	- 9.7	- 6.6		4		- 22.3	- 17.7	- 12.8	- 8.3
5		- 16.8	- 10.6	- 7.0		5		- 22.5	- 17.9	- 12.9	- 8.6
6		- 16.6	- 11.1	- 7.6		6		- 22.5	- 18.0	- 13.1	- 8.8
7		- 19.1	- 11.5	- 8.0		7		- 22.8	- 17.5	- 13.3	- 8.7
8		- 19.8	- 12.5	- 8.3		8		- 23.0	- 17.9	- 13.4	- 8.9
9		- 20.1	- 12.7	- 8.9		9		- 24.0	- 18.4	- 13.6	- 8.8
10		- 21.0	- 13.0	- 9.5		10		- 24.9	- 19.0	- 13.9	- 9.2
11		- 21.4	- 13.7	- 10.0		11		- 25.4	- 18.3	- 13.7	- 8.8
12		- 21.0	- 14.1	- 10.5		12		- 23.8	- 18.9	- 14.2	- 9.6
13		- 22.3	- 14.6	- 11.0		13		- 22.6	- 18.1	- 14.3	- 8.8
14		- 21.8	- 14.7	- 10.9		14		- 23.7	- 18.1	- 14.2	- 9.6
15		- 22.8	- 15.3	- 11.2		15		- 23.2	- 17.9	- 14.2	- 9.6
16		- 23.4	- 16.0	- 11.8		16		- 23.1	- 18.1	- 14.5	- 9.8
17		- 21.8		- 12.0		17		- 23.2	- 17.7	- 14.7	- 10.0
18		- 19.6	- 16.2	- 12.2		18		- 23.4	- 17.6	- 14.5	- 9.3
19		- 18.1	- 15.2	- 12.0		19		- 24.1	- 18.2	- 14.0	- 11.0
20		- 17.2	- 14.4	- 11.8		20		- 24.4	- 18.9	- 14.7	
21		- 17.0	- 14.5	- 11.3		21		- 24.3	- 18.9	- 14.9	
22		- 15.5	- 13.4	- 11.1		22		- 24.4	- 18.6	- 14.5	
23		- 17.4	- 12.9	- 10.7		23		- 23.5	- 20.0	- 15.5	
24		- 18.8	- 13.9	- 10.7		24		- 21.5	- 19.1	- 15.2	
25						25		- 20.5	- 18.1	- 15.0	
26		- 19.3	- 14.6	- 10.8		26		- 20.8	- 17.6	- 14.7	
27		- 21.1	- 14.9	- 11.1		27		- 21.3	- 17.3	- 14.7	
28		- 21.2	- 14.9	- 11.0		28					
29		- 21.1	- 15.8	- 11.1	- 6.9	29		- 21.0	- 17.9	- 14.1	
30		- 21.5	- 16.2	- 11.7	- 7.2	30		- 20.5	- 17.1	- 13.8	- 9.2
						31		- 22.2	- 17.2	- 14.0	- 9.7
Mean		- 19.3	- 13.4	- 9.9	(- 7.0)			- 22.6	- 18.0	- 14.0	- 9.0

1895. JANUARY.

1895. FEBRUARY.

Day.	8 a. m.					Day.	8 a. m.				
	Surf.	0·4 m.	0·8 m.	1·2 m.	1·6 m.		Surf.	0·4 m.	0·8 m.	1·2 m.	1·6 m.
1		-23·5	-18·7	-13·9	-9·5	1		-20·3	-17·4	-15·1	-11·4
2		-24·5	-21·8	-15·0	-10·2	2		-21·0	-17·2	-14·8	-11·1
3		-23·2	-18·7	-14·6	-10·2	3		-21·5	-16·8	-14·5	-11·0
4		-22·0	-18·2	-14·4	-10·0	4		-21·4	-16·2	-14·3	-10·5
5		-20·4	-17·6	-14·5	-9·6	5		-20·6	-16·2	-14·0	-10·9
6						6		-20·9	-17·2	-13·3	-10·7
7		-18·5	-17·5	-14·0	-9·2	7		-21·6	-17·0	-14·0	-10·5
8		-19·0	-16·0	-13·9	-8·2	8		-21·4	-17·3	-14·0	-10·5
9		-18·3	-15·7	-13·2	-9·2	9		-21·8	-17·7	-14·3	-10·5
10		-19·0	-15·7	-13·2	-10·1	10		-23·1		-14·5	-10·5
11		-19·6	-15·9	-13·1	-8·7	11		-22·9		-14·8	-10·6
12	-21·3	-18·7	-16·0	-13·2	-6·7	12		-21·9		-14·5	-10·5
13	-29·3	-19·0	-15·4	-13·0	-9·5	13		-21·9	-17·8	-14·2	-10·5
14	-32·4	-19·7	-15·7	-13·0	-9·8	14		-22·2	-17·7	-14·8	-10·6
15	-34·8		-15·2	-13·1	-9·7	15		-23·5	-18·1	-14·6	-10·4
16	-36·6	-21·5	-17·0	-13·6	-9·2	16		-24·0	-18·7	-14·8	-10·8
17	-36·8	-22·1	-17·5	-14·0	-9·4	17		-24·5	-19·0	-15·0	-10·6
18		-22·8	-18·0	-14·5	-9·7	18		-24·7	-19·2	-15·2	-10·6
19		-23·6	-18·9	-15·0	-9·2	19		-24·7	-19·5	-15·5	-11·3
20		-23·4	-19·0	-15·2	-10·4	20		-24·7	-19·8	-16·0	-11·2
21		-23·3	-19·2	-15·6	-10·5	21		-25·3	-19·8	-16·0	-11·4
22		-22·5	-18·0	-15·3	-10·2	22		-25·4	-20·3	-16·2	-11·5
23		-23·0	-18·0	-15·9	-10·2	23		-25·1	-20·0	-16·6	-11·6
24		-23·4	-18·8	-16·0	-10·5	24		-24·5	-20·0	-16·6	-11·8
25		-25·4	-19·7	-16·6	-10·7	25		-24·4	-19·9	-16·6	-12·2
26		-26·6	-20·5	-17·0	-10·5	26		-23·7	-20·1	-16·6	-12·1
27		-25·4	-20·4	-17·1	-10·6	27		-24·2	-19·8	-16·8	-12·1
28		-23·9	-19·0	-17·4	-10·9	28		-23·9	-20·0	-16·3	-11·7
29		-22·0	-18·5	-16·7	-10·3						
30		-22·6	-18·7	-15·7	-11·3						
31		-21·2	-18·4	-15·5	-11·4						
Mean	(-31·9)	-22·0	-17·9	-14·8	-9·9			-23·0	-18·5	-15·1	-11·0

1895. MARCH.

1895. APRIL.

Day.	8 a. m.					Day.	8 a. m.				
	Surf.	0.4 m.	0.8 m.	1.2 m.	1.6 m.		Surf.	0.4 m.	0.8 m.	1.2 m.	1.6 m.
1		- 22.8	- 19.6	- 16.0	- 11.5	1		- 21.7	- 17.7	- 14.7	- 11.5
2		- 22.1	- 19.3	- 17.0	- 11.6	2		- 21.1	- 17.4	- 14.8	- 11.4
3		- 22.8	- 19.3	- 16.8	- 11.7	3		- 20.9	- 17.2	- 14.0	- 11.3
4						4		- 20.7	- 16.9	- 14.0	- 11.3
5		- 23.6	- 19.5	- 16.3		5		- 20.5	- 16.8	- 13.8	- 11.3
6		- 23.0	- 19.4	- 16.0	- 11.8	6		- 19.8	- 16.5	- 13.7	- 11.3
7		- 22.6	- 18.8	- 16.0	- 11.8	7		- 20.1	- 16.4	- 13.7	- 11.3
8		- 22.3	- 18.7	- 16.0	- 11.7	8		- 20.4	- 16.4	- 13.5	- 11.4
9		- 22.3	- 18.6	- 15.9	- 11.8	9		- 20.4	- 16.4	- 13.4	- 11.3
10		- 22.3	- 18.4	- 15.8	- 11.6	10		- 20.5	- 16.6	- 13.2	- 11.3
11		- 22.6	- 18.6	- 15.8	- 11.8	11		- 20.6	- 16.6	- 13.4	- 11.3
12		- 22.4	- 18.1	- 15.8	- 11.3	12		- 20.4	- 16.6	- 13.3	- 11.3
13		- 21.1	- 18.2	- 15.8	- 11.4	13		- 20.1	- 16.5	- 13.4	- 11.3
14		- 21.1	- 17.7	- 15.2	- 11.4	14		- 19.2	- 16.3	- 13.2	- 11.1
15		- 21.4	- 17.5	- 15.3	- 11.4	15		- 18.8	- 15.9	- 13.0	- 11.3
16		- 20.8	- 17.4	- 14.9	- 11.3	16		- 18.6	- 15.5	- 12.9	- 10.6
17		- 21.6	- 17.3	- 14.3	- 11.3	17		- 19.6	- 15.4	- 12.8	- 10.4
18		- 22.3	- 17.4	- 14.7	- 11.4	18		- 18.8	- 15.4	- 12.7	- 11.4
19		- 21.4	- 17.1	- 14.7	- 11.4	19		- 19.1	- 15.3	- 12.7	- 10.4
20		- 21.7	- 17.2	- 14.5	- 11.4	20		- 18.6	- 15.3	- 12.2	- 10.4
21		- 22.2	- 17.4	- 14.6	- 11.8	21		- 18.7	- 15.1	- 12.0	- 10.2
22		- 22.5	- 17.5	- 14.6	- 11.4	22		- 18.6	- 15.0	- 12.2	- 10.6
23		- 22.6	- 17.6	- 14.8	- 11.3	23		- 18.5	- 15.1	- 12.5	- 10.7
24		- 22.9	- 17.9	- 14.7	- 11.4	24		- 18.6	- 14.9	- 12.2	- 10.7
25		- 22.3	- 17.8	- 14.8	- 11.7	25		- 18.7	- 15.2	- 12.0	- 10.5
26		- 22.5	- 17.7	- 14.8	- 11.5	26		- 18.9	- 15.2	- 12.1	- 10.9
27		- 22.6	- 17.7	- 14.7	- 11.6	27		- 19.0	- 15.2	- 12.0	- 10.7
28		- 23.0	- 17.6	- 14.9	- 11.6	28		- 18.9	- 15.3	- 12.2	- 10.8
29		- 22.6	- 17.7	- 14.9	- 11.6	29		- 18.6	- 15.1	- 12.1	- 10.2
30		- 22.6	- 17.5	- 15.0	- 11.4	30		- 18.5	- 15.1	- 12.0	- 9.9
31		- 22.6	- 17.6	- 14.8	- 11.4						
Mean		- 22.3	- 18.1	- 15.3	- 11.5			- 19.6	- 15.9	- 13.0	- 10.9

1895. MAY.

1895. JUNE.

Day.	8 a. m.					Day.	8 a. m.				
	Surf.	0·4 m.	0·8 m.	1·2 m.	1·6 m.		Surf.	0·4 m.	0·8 m.	1·2 m.	1·6 m.
1		- 17·8	- 15·1	- 12·0	- 10·2	1		- 5·5	- 5·8	- 5·2	- 5·0
2		- 17·2	- 14·7	- 12·0	- 9·9	2		- 5·3	- 5·5	- 5·2	- 4·8
3		- 16·4	- 14·3	- 11·9	- 9·9	3		- 5·1	- 5·4	- 5·0	- 4·8
4		- 15·7	- 13·5	- 11·9	- 10·1	4		- 5·1	- 5·4	- 5·0	- 4·7
5		- 15·6	- 12·5	- 11·7	- 9·9	5		- 4·9	- 5·1	- 4·9	- 4·7
6		- 15·4	- 13·3	- 11·4	- 9·9	6		- 4·7	- 5·0	- 4·7	- 4·5
7		- 15·2	- 13·2	- 11·1	- 10·2	7		- 4·5	- 4·9	- 4·6	- 4·5
8		- 14·5	- 12·7	- 11·2	- 9·7	8		- 4·6	- 4·9	- 4·5	- 4·3
9		- 14·0	- 12·3	- 11·1	- 9·4	9		- 4·6	- 4·6	- 4·2	- 4·1
10		- 13·6	- 12·3	- 10·9	- 9·5	10		- 4·6	- 4·7	- 4·3	- 4·2
11		- 12·7	- 12·1	- 10·7	- 9·3	11		- 4·3	- 4·5	- 4·1	- 3·9
12		- 12·4	- 11·6	- 10·3	- 8·9	12		- 4·3	- 4·4	- 4·1	- 3·9
13		- 12·4	- 11·4	- 10·2	- 8·8	13		- 3·3	- 4·2	- 4·0	- 3·8
14		- 12·0	- 11·1	- 10·0	- 8·7	14		- 2·9	- 3·9	- 3·9	- 3·7
15		- 11·5	- 10·7	- 9·8	- 8·5	15		- 2·4	- 3·7	- 3·8	- 3·7
16		- 11·9	- 10·5	- 9·7	- 8·5	16		- 2·2	- 3·4	- 3·6	- 3·1
17		- 11·9	- 10·3	- 9·5	- 8·5	17		- 1·7	- 3·1	- 3·3	- 3·2
18		- 11·7	- 10·4	- 9·5	- 8·4	18		- 1·7	- 2·2	- 2·9	- 2·7
19		- 11·6	- 10·1	- 9·2	- 8·1	19		- 1·6	- 1·9	- 2·8	- 3·0
20		- 11·6	- 10·1	- 9·2	- 7·9	20		- 1·2	- 1·8	- 2·8	- 2·9
21		- 11·3	- 9·8	- 9·1	- 7·9	21		- 1·2		- 2·5	
22		- 11·2	- 9·8	- 9·0	- 7·6	22		- 1·0	- 1·3	- 2·9	- 2·7
23		- 10·6	- 9·6	- 8·9	- 7·6	23		- 0·7	- 1·2	- 1·6	- 2·2
24		- 10·4	- 9·5	- 8·8	- 7·6	24		- 0·6	- 0·7	- 1·4	- 2·0
25		- 10·2	- 9·3	- 8·6	- 7·6	25		- 0·5	- 1·1	- 1·8	- 2·1
26		- 9·8	- 9·1	- 8·3	- 7·3	26		- 0·2	- 1·8	- 1·9	- 2·2
27		- 9·4	- 8·6	- 8·2	- 7·4	27		0·1	- 0·9	- 1·2	- 1·8
28		- 9·1	- 8·4	- 7·8		28		0·0	- 0·8	- 0·7	- 1·8
29		- 8·4	- 8·2	- 7·4		29		0·2	- 0·7	- 1·0	- 1·9
30		- 7·9	- 7·9	- 7·2		30		0·0	- 1·0	- 1·0	- 2·0
31											
Mean		- 12·4	- 11·1	- 9·9	- 8·8			- 2·6	- 3·2	- 3·3	- 3·4

1895. JULY.

1895. AUGUST.

Day.	8 a. m.					Day.	8 a. m.				
	Surf.	0·4 m.	0·8 m.	1·2 m.	1·6 m.		Surf.	0·4 m.	0·8 m.	1·2 m.	1·6 m.
1		0·0				1		— 0·3			
2						2		— 0·2			— 1·0
3		— 1·2			— 2·0	3		— 0·1			— 0·8
4		— 0·2			— 2·2	4		— 0·2			— 0·8
5		— 0·2			— 2·0	5		— 0·2			
6		— 0·2			— 2·1	6					
7		— 0·2			— 2·1	7					
8		— 0·2			— 1·5	8					
9		— 0·2			— 1·7	9					
10		— 0·2			— 1·5	10		— 0·4			
11		— 0·1				11		— 0·1			— 0·4
12		— 0·1			— 1·8	12		— 0·1			— 0·4
13						13		— 0·2			— 0·4
14						14		— 0·2			— 1·1
15		0·0			— 1·7	15		— 0·2			— 1·3
16		0·0			— 1·8	16		— 0·1			— 1·1
17		0·2			— 1·6	17		— 0·1			— 1·2
18		— 0·1			— 1·5	18		— 0·4			— 1·2
19		0·2			— 1·4	19		— 0·4			— 1·3
20		— 0·1			— 1·2	20		— 0·3			— 1·2
21		— 0·1			— 1·1	21					
22		0·1			— 1·0	22					
23		0·1			— 1·2	23					
24		0·0			— 1·2	24					
25		— 0·2			— 1·0	25		— 0·9			— 1·8
26		— 0·1			— 1·1	26		— 1·0			— 1·3
27		— 0·2			— 0·9	27		— 1·0			— 1·3
28		— 0·2			— 1·2	28		— 0·4			— 1·3
29		— 0·2			— 1·2	29		— 1·0			— 1·3
30		— 0·6			— 1·3	30		— 1·0			— 1·3
31						31		(— 0·8)			(— 1·7)
Mean		— 0·15			— 1·5			— 0·4			— 1·1



1895. SEPTEMBER.

1895. OCTOBER.

Day.	8 a. m.					Day.	8 a. m.				
	Surf.	0.5 m.	1.0 m.	1.5 m.	2.0 m.		Surf.	0.5 m.	1.0 m.	1.5 m.	2.0 m.
1	0.2	- 0.8	- 0.7	- 1.6	- 1.7	1	- 28.4	- 6.2		- 2.3	
2	- 3.0	- 0.1	- 0.6	- 0.4	- 0.3	2	- 18.6	- 5.8		- 2.4	
3	0.6	- 0.1	0.1	- 0.4		3	- 15.3	- 6.0		- 2.5	
4	- 2.3	- 0.2		- 0.6		4	- 14.0	- 5.8		- 2.5	
5	- 3.4	- 0.3		- 0.7		5	- 13.7	- 5.6		- 2.5	
6	- 4.1	- 0.3		- 0.4		6	- 11.7	- 5.2		- 2.9	
7	- 7.3	- 0.3		- 0.7		7	- 25.3	- 5.1		- 2.9	
8	- 9.2	- 0.7		- 1.0		8	- 15.4	- 5.2		- 2.8	
9	- 8.7	- 0.8		- 0.8		9	- 25.3	- 5.7		- 2.8	
10	- 5.3	- 0.9		- 1.0		10	- 18.4	- 5.9		- 2.9	
11	- 4.7	- 1.1		- 1.1		11	- 13.8	- 6.0		- 3.0	
12	- 5.1	- 1.7		- 1.1		12	- 21.3	- 5.9		- 3.0	
13	- 0.8	- 1.6		- 1.1		13	- 16.3	- 5.8		- 2.8	
14	- 3.8	- 1.5		- 1.1		14	- 16.8	- 6.1		- 3.0	
15	- 5.1	- 1.5		- 1.2		15	- 23.2	- 6.1		- 3.1	
16	- 3.5	- 1.5		- 1.2		16	- 22.2	- 6.6	- 3.4	- 3.0	
17	- 12.3	- 1.6		- 1.2		17	- 17.7	- 6.8	- 4.2	- 3.0	
18	- 8.4	- 1.8		- 1.3		18	- 18.3	- 7.0	- 4.2	- 3.1	
19	- 10.1	- 1.8		- 1.4		19	- 27.4	- 7.0	- 4.4	- 3.2	
20	- 9.9	- 2.0		- 1.4		20	- 29.7	- 7.5	- 4.7	- 3.1	
21	- 10.3	- 2.1		- 1.4		21	- 26.5	- 8.1	- 4.7	- 3.1	
22	- 18.5	- 2.3		- 1.6		22	- 21.3	- 8.7	- 5.3	- 3.1	
23	- 10.6	- 2.8		- 1.8		23	- 25.3	- 8.9		- 3.1	
24	- 20.3	- 6.0		- 1.8		24	- 27.5	- 8.1		- 3.2	
25	- 20.3	- 6.0		- 1.8		25	- 28.1	- 9.5	- 7.9	- 3.2	
26	- 18.1	- 6.4		- 1.9		26	- 28.3	- 9.9	- 8.2	- 3.2	
27	- 14.3	- 6.6		- 1.9		27	- 28.3	- 10.4	- 8.7	- 3.2	
28	- 20.0	- 6.3		- 2.0		28	- 27.3	- 10.1	- 8.9	- 3.1	
29	- 14.8	- 6.3		- 2.0		29	- 15.3	- 10.3	- 8.9	- 3.2	
30	- 14.8	- 6.0		- 2.2		30	- 23.3	- 10.0	- 9.1	- 4.2	
						31	- 26.3	- 10.0	- 9.1	- 4.2	
Mean	- 8.9	- 2.4		- 1.3			- 21.6	- 7.3	- 6.55	- 3.0	

1895. NOVEMBER.

1895. DECEMBER.

Day.	8 a. m.					Day.	8 a. m.				
	Surf.	0.5 m.	1.0 m.	1.5 m.	2.0 m.		Surf.	0.5 m.	1.0 m.	1.5 m.	2.0 m.
1	- 31.3	- 10.1	- 9.2	- 5.9		1	- 39.6	- 15.5	- 12.1	- 10.2	
2	- 32.3	- 10.8	- 9.3			2	- 37.6	- 15.9	- 12.3	- 10.3	
3	- 26.2	- 11.5	- 9.2			3	- 35.6	- 16.8	- 12.8	- 10.4	
4	- 26.8	- 11.6	- 9.0	- 7.2		4	- 34.1	- 17.0	- 13.4	- 11.6	- 6.5
5	- 31.3	- 11.6	- 10.0	- 6.8		5	- 33.6	- 16.9	- 13.5	- 11.6	- 6.8
6	- 24.3	- 12.0	- 9.2	- 7.1		6	- 35.6	- 17.1	- 13.7	- 11.0	- 7.0
7	- 23.1	- 12.0	- 10.4	- 9.2		7	- 40.1	- 17.7	- 13.7	- 11.3	- 7.3
8	- 25.3	- 12.1	- 10.5	- 8.5		8	- 42.3	- 18.4	- 14.2	- 11.4	- 7.5
9	- 38.3	- 13.0	- 10.4	- 7.2		9	- 40.8	- 18.7	- 14.4	- 11.3	- 7.4
10	- 38.1	- 13.5	- 10.8	- 7.5		10	- 30.1	- 18.8	- 14.5	- 11.8	- 7.9
11	- 20.3	- 12.7	- 10.7	- 7.4		11	- 25.1	- 18.6	- 14.9	- 11.6	- 8.1
12		- 13.8	- 11.9	- 7.7		12	- 22.6	- 17.6	- 14.9	- 11.8	- 8.5
13		- 13.8	- 11.3	- 8.0		13	- 23.9	- 16.8	- 14.8	- 12.3	- 8.5
14		- 13.2	- 11.2	- 8.3		14	- 26.1	- 16.2	- 14.6	- 12.3	- 8.8
15	- 31.3	- 13.5	- 11.2	- 8.8		15	- 25.4	- 16.0	- 14.4	- 12.3	- 8.7
16	- 22.1	- 13.2	- 11.0	- 8.6		16	- 23.1	- 15.9	- 14.4	- 12.1	- 8.8
17	- 31.1	- 13.4	- 11.0	- 8.8		17	- 37.8	- 16.9	- 14.6	- 12.1	- 8.9
18	- 26.1	- 13.6	- 11.0	- 8.8		18	- 38.4	- 17.4	- 14.9	- 12.2	- 9.3
19	- 33.1	- 13.8	- 11.1	- 8.8		19	- 37.6	- 18.1	- 14.7	- 12.3	- 9.0
20	- 39.3	- 14.2	- 11.0	- 9.1		20	- 34.6	- 17.9	- 15.1	- 12.5	- 8.8
21	- 42.1	- 14.8	- 11.2	- 9.1		21	- 34.1	- 17.6	- 15.1	- 12.5	- 9.1
22	- 42.1	- 15.0	- 11.3	- 9.2		22	- 33.6	- 17.4	- 14.4	- 13.0	- 9.3
23	- 42.7	- 16.1	- 11.4	- 9.5		23	- 25.6	- 17.9	- 14.7	- 12.9	- 9.4
24	- 39.3	- 15.8	- 11.6	- 9.7		24	- 32.1	- 17.4	- 14.4	- 12.7	- 9.5
25	- 36.4	- 16.0	- 11.6	- 9.6		25	- 35.1	- 17.9	- 15.3	- 12.8	- 9.5
26	- 36.1	- 16.1	- 11.6	- 9.7		26	- 24.6	- 18.4	- 15.5	- 13.2	- 9.6
27	- 19.1	- 16.1	- 11.6	- 9.9		27	- 20.6	- 16.9	- 14.6	- 12.9	- 9.5
28	- 21.3	- 15.5	- 11.9	- 10.2		28	- 32.1	- 15.0	- 13.4	- 12.4	- 10.0
29	- 25.3	- 15.0	- 11.9	- 10.1		29	- 41.6	- 17.4	- 15.3	- 13.4	- 10.0
30	- 36.6	- 14.6	- 11.9	- 10.1		30	- 39.6	- 17.9	- 16.4	- 13.4	- 10.0
						31	(- 45.1)				- 10.0
Mean	- 31.2	- 13.6	- 10.8	- 8.6			- 32.9	- 17.3	- 14.4	- 12.1	- 8.7

1896. JANUARY.

1896. FEBRUARY.

Day.	8 a. m.					Day.	8 a. m.				
	Surf.	0.5 m.	1.0 m.	1.5 m.	2.0 m.		Surf.	0.5 m.	1.0 m.	1.5 m.	2.0 m.
1	-41.6	-19.5	-16.4	-13.9	-10.3	1	-27.1	-19.9	-18.6	-16.2	-13.0
2	-42.1	-20.0	-16.5	-13.4	-10.3	2	-24.3	-19.7	-18.9	-16.2	-13.0
3	-44.1	-20.6	-17.1	-13.9	-10.5	3	-33.6	-20.0	-18.9	-16.2	-13.0
4	-41.1	-21.0	-17.3	-14.1	-10.6	4	-40.6	-20.0	-18.6	-15.9	-12.6
5	-44.9	-21.7	-17.3	-14.1	-10.8	5	-44.1	-21.3	-17.7	-15.7	-12.5
6	-46.1	-22.0	-17.4	-14.7	-10.9	6	-41.1	-22.0	-18.3	-15.7	-12.5
7	-45.3	-23.0	-17.6	-14.4	-11.0	7	-41.6	-22.5	-18.7	-16.0	-12.5
8	-45.1	-23.7	-18.0	-14.9	-11.3	8	-43.6	-22.5	-18.6	-16.1	-12.5
9	-43.1	-23.4	-18.4	-15.1	-11.5	9	-38.5	-23.5	-19.1	-16.6	-12.7
10	-45.1	-23.4	-18.7	-15.3	-11.5	10	-30.1	-23.0	-19.4	-16.4	-12.9
11	-45.9	-23.7	-18.5	-15.4	-11.5	11	-39.1	-23.0	-19.4	-17.0	-12.9
12	-44.2	-24.1	-19.5	-16.0	-11.9	12	-45.1	-22.8	-19.4	-16.9	-13.0
13	-46.9	-23.8	-19.6	-16.0	-12.0	13	-46.1	-23.8	-19.7	-17.2	-13.0
14	-47.1	-24.0	-19.3	-16.4	-12.5	14					
15	-52.1	-25.2	-20.6	-16.2	-12.7	15	-34.3	-23.5	-20.4	-17.6	-13.4
16	-49.1	-26.0	-21.2	-16.6	-12.8	16	-42.1	-23.8	-20.4	-17.2	-13.4
17	-37.1	-26.5	-22.5	-16.9	-13.0	17	-44.1	-24.0	-20.4	-17.2	-13.6
18	-32.1	-25.0	-21.2	-17.4	-13.4	18	-35.1	-24.0	-20.6	-17.4	-13.6
19	-19.1	-23.0	-20.6	-17.4	-13.6	19	-42.6	-24.2	-20.9	-17.4	-13.8
20	-23.3	-21.0	-19.4	-17.6	-13.6	20	-43.1	-24.5	-21.1	-17.5	-13.9
21	-27.1	-21.8	-19.6	-17.4	-13.8	21	-25.1	-24.3	-21.1	-17.5	-13.8
22	-27.6	-20.7	-19.1	-17.2	-13.6	22					
23	-33.6	-20.7	-18.7	-16.9	-13.6	23					
24	-34.1	-21.0	-18.6	-16.9	-13.6	24					
25	-31.3	-20.7	-18.6	-17.1	-13.6	25	-24.1	-20.2	-19.2	-17.4	-14.1
26	-35.6	-20.9	-18.6	-16.8	-13.4	26					
27	-39.1	-21.2	-18.9	-17.2	-13.6	27					
28	-25.3	-21.5	-18.9	-16.4	-13.6	28	-37.6	-20.8	-18.6	-17.1	-13.9
29	-33.6	-21.5	-18.9	-16.4	-13.1	29	-35.8	-21.5	-18.9	-16.9	-13.9
30	-19.1	-20.8	-19.1	-16.4	-13.0						
31	-22.9	-20.0	-18.4	-16.2	-12.9						
Mean	-37.6	-22.3	-18.9	-16.0	-12.4		-37.3	-22.4	-19.4	-16.8	-13.2

1896. MARCH.

1896. APRIL.

Day.	8 a. m.					Day.	8 a. m.				
	Surf.	0.5 m.	1.0 m.	1.5 m.	2.0 m.		Surf.	0.5 m.	1.0 m.	1.5 m.	2.0 m.
1	- 33.1	- 21.7	- 19.1	- 16.8	- 13.6	1	- 7.1	- 11.5	- 12.2	- 12.6	- 10.1
2	- 28.1	- 22.0	- 19.2	- 16.7	- 13.6	2	- 5.6	- 11.3	- 11.8	- 12.5	- 9.9
3	- 28.6	- 21.2	- 19.4	- 16.9	- 13.6	3	- 9.6	- 10.9	- 11.6	- 12.1	- 9.8
4	- 31.1	- 20.8	- 19.2	- 17.2	- 13.6	4	- 9.1	- 10.6	- 11.2	- 11.5	- 9.7
5	- 43.1	- 21.0	- 19.2	- 16.9	- 13.6	5	- 8.6	- 10.7	- 11.0	- 11.3	- 9.4
6	- 32.1	- 20.8	- 19.1	- 16.9	- 13.6	6	- 5.1	- 10.7	- 11.0	- 11.0	- 9.3
7	- 27.1	- 21.2	- 19.2	- 16.9	- 13.6	7	- 9.6	- 10.5	- 10.9	- 10.8	- 9.2
8	- 23.6	- 20.8	- 19.1	- 16.9	- 13.6	8	- 10.1	- 10.4	- 10.7	- 10.7	- 9.0
9	- 16.1	- 20.8	- 19.2	- 16.9	- 13.5	9	- 8.9	- 10.1	- 10.5	- 10.5	- 8.9
10	- 24.6	- 19.0	- 18.4	- 16.9	- 13.5	10	- 14.1	- 10.0	- 10.3	- 10.4	- 8.8
11	- 14.1	- 18.8	- 18.2	- 16.7	- 13.5	11	- 16.6	- 10.1	- 10.3	- 10.4	- 8.6
12	- 14.1	- 18.0	- 17.7	- 16.7	- 13.4	12	- 25.9	- 10.6	- 10.2	- 10.2	- 8.6
13	- 12.6	- 16.9	- 17.3	- 16.4	- 13.3	13	- 27.1	- 10.8	- 10.4	- 10.1	- 8.5
14	- 23.1	- 16.3	- 16.6	- 16.2	- 13.1	14	- 22.3	- 12.8	- 10.9	- 10.1	- 8.4
15	- 13.1	- 16.2	- 16.2	- 16.1	- 12.9	15	- 26.6	- 13.1	- 11.4	- 10.1	- 8.3
16	- 10.8	- 15.5	- 15.7	- 15.6	- 12.7	16	- 22.1	- 13.8	- 11.9	- 10.1	- 8.2
17	- 12.6	- 14.3	- 15.1	- 15.4	- 12.5	17	- 24.1	- 14.1	- 12.2	- 10.1	- 8.3
18	- 18.6	- 14.6	- 15.0	- 15.2	- 12.3	18	- 17.6	- 14.1	- 12.4	- 10.5	- 8.4
19	- 18.1	- 14.9	- 14.7	- 15.0	- 12.1	19	- 16.9	- 13.6	- 12.5	- 10.6	- 8.2
20	- 18.6	- 14.9	- 14.7	- 14.7	- 12.0	20	- 19.6	- 13.8	- 12.4	- 10.7	- 8.5
21	- 16.6	- 14.7	- 14.5	- 14.5	- 11.7	21	- 17.6	- 13.7	- 12.4	- 10.8	- 8.5
22	- 16.6	- 14.5	- 14.4	- 14.4	- 11.5	22	- 13.3	- 13.1	- 12.4	- 10.8	- 8.6
23	- 13.1	- 14.3	- 14.6	- 14.3	- 11.5	23	- 18.1	- 12.8	- 12.3	- 10.8	- 8.7
24	- 19.1	- 14.4	- 14.1	- 13.7	- 11.2	24	- 12.1	- 12.7	- 12.2	- 10.8	- 8.7
25	- 20.1	- 14.5	- 14.1	- 14.0	- 11.0	25	- 12.1	- 12.2	- 12.0	- 10.8	- 8.7
26	- 12.6	- 14.4	- 14.1	- 13.7	- 10.9	26	- 15.6	- 12.1	- 11.8	- 10.8	- 8.7
27	- 5.3	- 13.8	- 13.9	- 13.6	- 10.8	27	- 11.1	- 12.1	- 11.4	- 10.8	- 8.7
28	- 6.1	- 12.6	- 13.4	- 13.5	- 10.6	28	- 10.3	- 11.7	- 11.4	- 10.6	- 8.7
29	- 12.9	- 12.4	- 12.9	- 13.4	- 10.5	29	- 22.4	- 11.1	- 11.3	- 10.3	- 8.4
30	- 6.6	- 12.3	- 12.6	- 13.1	- 10.4	30	- 21.6	- 11.9	- 11.3	- 10.4	- 8.5
31	- 7.3	- 11.7	- 12.3	- 12.9	- 10.2						
Mean	- 18.7	- 16.8	- 16.2	- 15.4	- 12.4		- 15.4	- 11.9	- 11.5	- 10.8	- 8.8

1896. MAY.

1896. JUNE.

Day.	8 a. m.					Day.	8 a. m.				
	Surf.	0.5 m.	1.0 m.	1.5 m.	2.0 m.		Surf.	0.5 m.	1.0 m.	1.5 m.	2.0 m.
1	-25.1	-12.3	-11.4	-10.6	-8.5	1	-2.1	-2.3			-6.2
2	-20.9	-12.8	-11.6	-10.6	-8.5	2	-4.6	-2.4			-5.6
3	-20.4	-12.8	-11.7	-10.6	-8.3	3	-4.6	-3.2			-5.4
4	-13.4	-12.8	-11.6	-10.4	-8.5	4	-4.8	-3.0			-5.2
5	-14.9	-12.1	-11.4	-10.5	-8.3	5	-4.1	-3.0			-5.2
6	-17.4	-11.8	-11.4	-10.5	-8.3	6	-1.1	-3.2			-5.1
7	-24.3	-12.9	-12.2	-10.5	-8.3	7	-4.1	-3.2			-5.0
8	-19.1	-12.2	-11.4	-10.3	-8.2	8	-3.1	-3.2			-4.9
9	-15.1	-12.1	-11.4	-10.4	-8.3	9	-3.1	-2.8			-4.8
10	-14.8	-11.8	-11.4	-10.4	-8.3	10	-2.1	-2.2			-4.7
11	-15.1	-11.5	-11.2	-10.4	-8.2	11	-1.0	-1.2			-4.6
12	-9.3	-11.3	-11.2	-10.4	-8.2	12	-2.3	-1.4			-4.5
13	-7.9	-10.5	-10.8	-10.1	-8.2	13	-1.0	-1.8			-4.4
14						14		-1.6			-4.3
15	-12.1					15					
16	-10.1	-10.1	-10.2	-9.8	-8.1	16					
17	-2.7	-9.6	-10.0	-9.9	-8.1	17	-1.1	-2.9			-5.9
18	-11.1	-9.2	-9.7	-9.7	-7.8	18	-0.4	-2.6			-6.0
19	-12.4	-9.3	-9.4	-9.6	-7.8	19	-0.1	-2.6			-5.7
20	-8.4		-9.4	-9.5	-7.7	20	0.9	-1.5			-5.7
21	-3.8	-9.0	-9.4	-9.4	-7.6	21	1.1	0.0			-4.2
22	-1.9	-8.3	-9.2	-9.3		22	1.6	0.1			-4.2
23	-1.2	-6.7	-7.3	-8.0	-7.0	23	0.9	0.0			-3.9
24	-1.3	-6.1	-7.1	-7.8	-7.1	24	0.9	0.2			-2.1
25	0.7	-4.7	-6.5	-7.4	-6.9	25	1.9	0.5			-1.5
26	0.7	-3.4	-6.2	-7.4	-7.0	26	-0.1	0.2			-0.9
27	-0.1	-0.2			-6.8	27	0.8	-0.4			-1.2
28	-3.3	-0.2			-6.6	28					
29	-4.3	-2.2	-5.6		-6.4	29					
30	-2.3	-2.1			-6.1	30	0.6				
31	-1.7	-1.9			-5.9						
Mean	-9.8	-8.6	-9.9	-9.7	-7.7		-1.2	-1.7			-4.4

## REMARKS.

1894. June 15. p. m. Bored holes for all thermometers.
- 21. p. m. Changed therm. for 0·8 m. Rubbed up hole for 1·6 m.
- 25. Therm. taken up 5.30 p. m. Holes rebored.
- 29. Holes cleaned a. m.
- July 3. New holes bored on same floe, the former place being swamped.
- 5. Hole for 1·6 m. rebored p. m.
- 6. a. m. This hole being full of water, a new hole was bored.
- 13. a. m. Hole for 1·6 m. pumped dry p. m. Bored it out somewhat more, and cleaned out the other holes.
- October 18. at 0·4 and 0·8 m. ice dry. At 1·2 m. therm. froze fast.
- November 3. Therm. 0·4 m. disturbed by the dogs.
1895. March 6. a. m. Changed therm. for 1·6 m.
- May 30. Therm. 0·4 m. and 0·8 m. placed on a new spot.
- 31. Therm. 1·2 m. and 1·6 m. taken up. Therm. 0·8 carried away by the dogs.
- June 1. Ice-thermometers now all removed to a new place, and stand in 4 holes. 1·6 m. full of water, and 1·2 m. full of slush.
- July 2. The ice-thermometers frozen fast, and therefore only two are used, at 0·4 m. and at 1·6 m. The holes cleaned out twice a day.
- 15. Bored a fresh hole for 1·6 m.
- 30. The floe in which the ice-thermometers stood had drifted away through the loose ice. The thermometers were removed to the floe close to the ship.
- 31. Therm. 1·6 m. stood fast. The dogs had disturbed therm. for 0·4 m. Put salt in the hole for 1·6 m.

- |       |          |          |   |
|-------|----------|----------|---|
| 1895  | August   | 12.      | The ice-thermometers are read each evening and then taken up. Next morning the holes are rebored, and the thermometers lowered. |
|       | —        | 31.      | The thermometers placed in new holes, and at depths of 0·5, 1·0, 1·5 and 2·0 metres. The thickness of the floe 3·10 m.          |
|       | October  | 2. a. m. | The hole for 0·5 m. changed from 4 to 2 inches diameter, isolated by reindeer-skin.   |
| 1896. | February | 15.      | Therm. not read, because the observer could not cross the lane.   |
|       | May      | 20.      | Therm. 0·5 m. carried away by the dogs.   |
|       | —        | 23.      | The ice-thermometers removed to the floe close to the ship, and 5-inch holes bored for 1·5 m. and 2 m.                          |
|       | —        | 27.      | Therm. 1·0 m. and 1·5 m. fast in the holes.   |
|       | —        | 30.      | Therm. 1·0 m. and 1·5 m. taken up.  |
|       | June     | 15.      | All the instruments taken on board.   |
|       | —        | 16.      | Put out again in their former places.   |
|       | —        | 26.      | Thermometers down since 2 p. m.   |

The above Remarks give an idea of the difficulties to which the observation of the temperature of the ice were subjected.

The following Table gives the monthly means for the different years of the observed temperatures for the air, the surface of the ice, and the various depths.

In order to obtain the mean temperatures for the depths of 0·4, 0·8, 1·2, 1·6 and 2·0 metres, I have calculated the missing values for each month and year by means of the formula

$$\log t_h = \log t_o - f.h,$$

where  $t_h$  is the temperature at the depth  $h$ ,  $t_o$  at the surface, and  $f$  a coefficient (the logarithmic decrement).

The formula gives values, whose difference from the observed values ranges from 0°·6 for the winter-months to 0°·1 for the summer months.

The computed values are enclosed in brackets.

		Air.	Surf.	0.4 m	0.5 m.	0.8 m.	1.0 m.	1.2 m.	1.5 m.	1.6 m.	2.0 m.
January	1895	- 33.7	- 31.9	- 22.0		- 17.9		- 14.8		- 9.9	[- 8.1]
—	96	- 37.3	- 37.6	[- 23.6]	- 22.3	[- 20.2]	- 18.9	[- 17.3]	- 16.0	[- 14.9]	- 12.4
	Mean	- 37.5	- 34.7	- 22.8		- 19.1		- 16.1		- 12.4	- 10.3
February	1895	- 37.3		- 23.0		- 18.5		- 15.1		- 11.0	[- 9.0]
—	96	- 34.7	- 37.3	[- 23.6]	- 22.4	[- 20.6]	- 19.4	[- 17.9]	- 16.8	[- 15.6]	- 13.2
	Mean	- 36.0		- 23.3		- 19.6		- 16.5		- 13.3	- 11.1
March	1895	- 35.0		- 22.3		- 18.1		- 15.3		- 11.5	[- 9.5]
—	96	- 18.9	- 18.7	[- 17.8]	- 16.8	[- 16.5]	- 16.2	[- 15.2]	- 15.4	[- 14.1]	- 12.4
	Mean	- 27.0		- 20.1		- 17.3		- 15.3		- 12.8	- 11.0
April	1894	- 21.3	- 17.7	- 18.5		- 16.0		- 14.0		- 12.5	[- 10.9]
—	95	- 28.9		- 19.6		- 15.9		- 13.0		- 10.9	[- 8.9]
—	96	- 18.2	- 15.4	[- 12.5]	- 11.9	[- 11.6]	- 11.5	[- 10.8]	- 10.8	[- 10.2]	- 8.8
	Mean	- 22.8		- 16.9		- 14.5		- 12.6		- 11.2	- 9.5
May	1894	- 10.2	- 8.0	- 9.1		- 8.9		- 7.8		- 5.7	[- 5.3]
—	95	- 12.3		- 12.4		- 11.1		- 9.9		- 8.8	[- 7.8]
—	96	- 10.5	- 9.8	[- 9.5]	- 8.6	[- 9.2]	- 9.9	[- 9.0]	- 9.7	[- 8.7]	- 7.7
	Mean	- 11.0		- 10.3		- 9.7		- 8.9		- 7.7	- 6.9
June	1894	- 1.6	- 0.9	- 1.6		- 2.4		- 2.8		- 2.4	[- 3.2]
—	95	- 2.2		- 2.6		- 3.2		- 3.3		- 3.4	[- 3.8]
—	97	- 1.9	- 1.2	[- 1.6]	- 1.7	[- 2.0]		[- 2.6]		[- 3.4]	- 4.4
	Mean	- 1.9		- 1.9		- 2.5		- 2.9		- 3.1	- 3.8
July	1894	+ 0.3	+ 0.1	+ 0.4		- 0.3		- 0.4		- 0.8	[- 1.0]
—	95	- 0.3		- 0.2		[- 0.7]		[- 1.1]		- 1.5	[- 1.9]
	Mean	0.0		[- 0.1]		- 0.5		- 0.8		- 1.2	- 1.5
August	1895	- 2.5		- 0.4		[- 0.6]		[- 0.8]		- 1.1	[- 1.5]
September	1895	- 9.7	- 8.9	[- 3.6]	- 2.4	[- 2.1]		[- 1.7]	- 1.3	[- 1.2]	[- 0.8]



		Air.	Surf.	0·4 m.	0·5 m.	0·8 m.	1·0 m.	1·2 m.	1·5 m.	1·6 m.	2·0 m.
October	1894	− 22°3		− 11°3		− 6°2		− 2°0		[− 0°9]	[− 0°4]
—	95	− 21·2	− 21·6	[− 9·0]	− 7·3	[− 6·2]	− 6·6	[− 4·3]	− 3·0	[− 3·1]	[− 2·2]
	Mean	− 21·8		− 10·2		− 6·2		− 3·2		− 2·0	− 1·3
November	1894	− 30·9		− 19·3		− 13·4		− 9·9		[− 7·0]	[− 0·4]
—	95	− 30·9	− 31·2	[− 14·1]	− 13·6	[− 11·7]	− 10·8	[− 9·8]	− 8·6	[− 8·2]	[− 6·7]
	Mean	− 30·9		− 16·7		− 12·6		− 9·9		− 7·6	− 5·9
December	1894	− 35·0		− 22·6		− 18·0		− 14·0		− 9·0	[− 7·1]
—	95	− 32·6	− 32·9	[− 18·7]	− 17·3	[− 15·6]	− 14·4	[− 13·0]	− 12·1	[− 10·9]	− 8·7
	Mean	− 33·8		− 20·7		− 16·8		− 13·5		− 10·0	− 7·9

The numbers for the air are the monthly means for the respective years given on p. 483. As the figures for the surface are rather uncertain, I have not made use of them in the following discussion.

As it will be seen, the annual series of the temperatures for the different depths is far from being homogeneous. We have some months for 3 years, some for 2 years, and some for only one year. An attempt to reduce them to the means of 3 years proved a failure. Generally the temperature of the ice rises and falls with the temperature of the air, but I tried in vain to find any rational coefficient of reduction, and in some months — for instance February (and November) — the temperature of the air and the temperature of the ice go in opposite directions.

I have therefore taken the monthly means as they stand, and computed the annual periods of the temperature at the different depths directly for them. The want of homogeneity in the figures for the different months is thereby to a certain extent eliminated, because all the 12 numbers enter into the determination of the constants expressing the annual period. The weakest months are August and September, but happily the mean temperatures of the air for these months in 1894 and 1895 do not deviate from their general mean more than 0°7.

The formula for the annual period which I have used, is

$$t_m = M + a \cdot \sin(A + m)$$

$t_m$  being the mean temperature for the month,  $M$  the mean annual temperature,  $a$  the half amplitude or range,  $A$  the phase-angle, and  $m$  the angle

representing the month, reckoned from the middle of January. The first part of the following Table shows the result of the computation of the annual period for the depths 0.4, 0.8, 1.2, 1.6 and 2.0 metres.

Depth.	0.4 m.	0.8 m.	1.2 m.	1.6 m.	2.0 m.	Surf.	3.0 m.	Air.
<i>M</i>	— 12°2	— 10°1	— 8°5	— 7°0	— 6°0	— 15°0	— 4°1	— 19°6
<i>a</i>	12°05	10°0	8°45	6°7	5°8	14°8	3°8	18°8
<i>A</i>	255°55'	249°16'	243°9'	236°42'	232°54'	261°54'	211°46'	270°14'
Jan.	— 23°9	— 19°5	— 16°1	— 12°6	— 10°6	— 29°6	— 6°1	— 38°4
Feb.	— 23°8	— 20°0	— 17°0	— 13°6	— 11°7	— 28°7	— 7°4	— 35°9
Mar.	— 20°5	— 17°9	— 15°6	— 12°4	— 11°3	— 24°0	— 7°9	— 28°9
Apr.	— 15°1	— 13°7	— 12°3	— 10°6	— 9°9	— 17°1	— 7°3	— 19°4
May	— 8°9	— 8°5	— 8°0	— 7°8	— 6°7	— 9°5	— 5°9	— 10°1
June	— 3°6	— 3°8	— 3°9	— 4°0	— 3°7	— 3°4	— 4°0	— 3°3
July	— 0°5	— 0°7	— 1°0	— 1°4	— 1°4	— 0°4	— 2°1	— 0°8
Aug.	— 0°6	— 0°2	— 0°05	— 0°3	— 0°2	— 1°3	— 0°8	— 3°3
Sept.	— 3°9	— 2°3	— 1°4	— 1°5	— 0°6	— 5°9	— 0°4	— 10°3
Oct.	— 9°3	— 6°6	— 4°7	— 3°3	— 2°0	— 12°9	— 0°9	— 19°7
Nov.	— 15°5	— 11°7	— 9°0	— 6°1	— 5°3	— 20°5	— 2°3	— 29°1
Dec.	— 20°8	— 16°5	— 13°1	— 10°0	— 8°2	— 26°6	— 4°2	— 35°9
Min.	— 24°3	— 20°2	— 17°0	— 13°7	— 11°8	— 29°7	— 7°9	— 38°4
	Jan. 29.	Febr. 5.	Febr. 11.	Febr. 17.	Febr. 21.	Jan. 23.	March 15.	Jan. 15.
Max.	— 0°2	— 0°1	— 0°05	— 0°3	— 0°2	— 0°2	— 0°35	— 0°8
	Aug. 2.	Aug. 9.	Aug. 15.	Aug. 21.	Aug. 25.	July 27.	Sept. 15.	July 18.
Range	24°1	20°1	16°9	13°4	11°6	29°5	7°5	37°6
M. E.	± 0°8	± 0°6	± 0°6	± 0°5	± 0°4	± 0°3	± 0°2	± 1°3

The second part of the Table gives the annual period for the surface, for the depth of 3 metres, and for the air. The numbers used for the computation for these depths are those of the first part of the Table, introduced in the formula

$$\log t_h = \log t_o - f.h.$$

and computed by the method of least squares.

The annual period for the air is computed from the means in the Table on pp. 560, 561.

M. E. is the mean difference: observed—calculated.

The numbers in the above Table are represented graphically by the diagrams on Pl. X, (1) the annual period at the different depths and of the air, (2) the vertical course of the temperature in each month, negative tempera-

ture on each side of the median zero-line, (3) the whole temperature-system by means of isopleths.

Comparing the computed temperatures of the surface of the ice with the smoothed monthly temperatures of the air, we have

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Air	-38 <sup>4</sup>	-35 <sup>9</sup>	-28 <sup>9</sup>	-19 <sup>4</sup>	-10 <sup>1</sup>	-3 <sup>3</sup>	-0 <sup>8</sup>	-3 <sup>3</sup>	-10 <sup>3</sup>	-19 <sup>7</sup>	-29 <sup>1</sup>	-35 <sup>9</sup>
Surf.	-29 <sup>6</sup>	-28 <sup>7</sup>	-24 <sup>0</sup>	-17 <sup>1</sup>	-9 <sup>5</sup>	-3 <sup>4</sup>	-0 <sup>4</sup>	-1 <sup>3</sup>	-5 <sup>9</sup>	-12 <sup>9</sup>	-20 <sup>5</sup>	-26 <sup>6</sup>
Diff.	-8 <sup>8</sup>	-7 <sup>2</sup>	-4 <sup>9</sup>	-2 <sup>3</sup>	-0 <sup>6</sup>	+0 <sup>1</sup>	-0 <sup>4</sup>	-2 <sup>0</sup>	-4 <sup>4</sup>	-6 <sup>8</sup>	-8 <sup>6</sup>	-9 <sup>3</sup>

The surface of the ice, in all months with the single exception of June, is warmer than the air. The difference is greatest in December. The surface of the ice, being covered, except during a short time in summer, with snow, is protected from cooling by radiation upwards, and receives heat from the underlying warmer layers. The upper free surface of the snow radiates heat freely towards the sky and space, and loses heat in a greater proportion than does its lower surface in contact with the ice, and the resulting thermal state of the upper surface is the main factor for the determination of the temperature of the air. This radiation goes on throughout the year. During autumn and winter, and particularly in the dark season, the cooling by radiation of heat from the surface of the earth is greater than the warming effect of the radiation from the sun, or is the sole agent. In spring and summer the radiation from the sun prevails over the radiation from the earth and the temperature of the upper surface of the snow, and the temperature of the air rises more quickly than that of the surface of the ice, which is prevented by the snow-covering from receiving the full effect of the radiation of the sun. The fact that the surface of the ice has a higher temperature than the air, is thus in full accordance with the natural conditions of the arctic ocean.

The theory<sup>1</sup> of the propagation of heat in a soil of constant thermometrical heat-conductivity down to great depths requires that the different depths have the same annual temperature as the surface, and that the logarithmic decrements of the annual ranges of the temperature in the different depths are constant, and equal to the constant retardation of the phase with

<sup>1</sup> J. HANN. *Lehrbuch der Meteorologie*, p. 737.

depth. The first condition is not fulfilled in the case of the polar ice, as we see from the Table, p. 562, the mean annual temperature,  $M$ , being higher than that of the surface, and increasing with depth. Nor does the second condition agree with our facts, as will be seen further on.

The Table on p. 562 shows that the phase-angle decreases with depth. This signifies that the greater the depth, the later do the annual minima and maxima of the temperature occur. This lag or retardation of the heat-wave is proportional to the depth. I have computed the most probable value of the coefficient of this retardation from the given values by the method of least squares.

Depth	$A_{\text{obs.}}$	$A_{\text{calc.}}$	$o - c$
0.4 m.	255.91	255.32	+ 0.59
0.8	249.27	249.46	- 0.19
1.2	243.15	243.60	- 0.45
1.6	236.70	237.74	- 1.04
2.0	232.90	231.88	+ 1.02
$M.E.$			$\pm 0.68$
$A = 261.^\circ 18 - 14.^\circ 65. h \text{ metre}$			

or retardation  $r = 14.^\circ 65$  per metre.

The computation with the 7 values from  $h = 0$  to  $h = 3$  m. gives  $A = 262.^\circ 61 - 16.^\circ 30. h$  and  $M.E. = \pm 0.^\circ 9$ . As the first and last values, for 0 and 3 metres, are extrapolated, the first found equation for  $A$  is to be preferred.

The retardation  $r$  of  $14.^\circ 65$  per metre corresponds to 14.86 days per metre, and is equal to  $0.2557$  radian  $\left(r \frac{\pi}{180}\right)$ .

The Table on p. 562 gives as the annual ranges of the temperature at different depths,

Depth	Range	Comp.	$o - c$
0.4 m.	24.1	24.1	0.0
0.8	20.1	20.0	+ 0.1
1.2	16.9	16.6	+ 0.3
1.6	13.4	13.8	- 0.4
2.0	11.6	11.5	+ 0.1
$M.E.$			$\pm 0.2$
Log. br. Range = $1.4638 - 0.2026 h \text{ m.}$			

The Briggsian logarithmic decrement 0.2026 corresponds to the Napierian logarithmic decrement 0.4662. According to the theory, this number should be equal to the retardation of the phase. Thus the retardation

$$\begin{aligned} \text{from the ranges} &= 0.4662 \text{ radian} = 26.78^\circ \\ \text{„ - phase-angles} &= 0.2557 \text{ „} = 14.65^\circ. \end{aligned}$$

The theory requires the identity of these two numbers.

This requirement is not fulfilled.

The phase-angles give a retardation of 14.86 days per metre. The velocity with which the heat-wave is propagated in the ice becomes 24.58 metres in one year, or 6.729 centimetres in one day.

The thermometric conductivity  $K$  is equal to  $\frac{\pi}{r^2} \cdot \frac{1}{T}$ .

Putting  $T = 1 \text{ year} = 365.25 \times 24 \times 60 \text{ minutes}$  and  $r$  in centimetres, we have

from the phase-angles  $r = 0.002557$   $K = 0.91$  pr. cm. and min.

„ - ranges  $r = 0.004662$   $K = 0.27$  - „ - „

HANN gives (L. d. M. p. 741) for ice,  $K = 0.68$ .

The value derived from the phase-angles is nearest to this value.  $K = 0.68$  gives  $r = 17^\circ$  instead of our  $14.65^\circ$ , but it is very near to the otherwise found  $16.3^\circ$  (p. 564).

We have seen that the depth which the heat-wave attains in one year, computed from the phase-angles, is 24.6 metres. To this depth the polar-ice does not reach; its thickness is only about 3 metres. Below the ice is seawater, the temperature of which is nearly constant throughout the year. At the depth of 3 metres, Professor NANSEN gives the following temperatures<sup>1</sup>.

May	June	July	August	Sept.	Oct.	Nov.	Dec.	Mean
- 1.69	- 1.5	- 1.59	- 1.55	- 1.56	- 1.56	- 1.64	- 1.7	- 1.59

May, November and December are perhaps a little too low. Prof. NANSEN names August as the month of maximum. The minimum probably occurs at the end of the winter, or the beginning of spring. The whole annual variation seems only to be from  $- 1.5$  to  $- 1.7$ , or to have a range of only  $0.2$  or even less.

<sup>1</sup> Norw. Polar Exp. Vol. III, No. 9. Oceanography of North Polar Basin, p. 314.

The computed range of the ice-temperature at 3 metres is  $7^{\circ}5$  (Table, p. 562).

Computing the range of the ice-temperature at the different depths from the range of the surface  $29^{\circ}5$  and the logarithmic decrement found from the phase-angles,  $0.2557$  or  $\log \text{br. } am_h = 1.46982 - 0.11105 \cdot h$ , we get

	$h = 0 \text{ m.}$	$0.4 \text{ m.}$	$0.8 \text{ m.}$	$1.2 \text{ m.}$	$1.6 \text{ m.}$	$2.0 \text{ m.}$	$3.0 \text{ m.}$
Range	$29^{\circ}5$	$26^{\circ}6$	$24^{\circ}0$	$21^{\circ}7$	$19^{\circ}6$	$17^{\circ}7$	$13^{\circ}7$
Obs.	$29.5$	$24.1$	$20.1$	$16.9$	$13.4$	$11.6$	$7.5$
Diff.	$0.0$	$2.5$	$3.9$	$4.8$	$6.2$	$6.1$	$6.2$

With these ranges, and the constant value of the mean annual temperature of the Surface,  $-15^{\circ}0$  (p. 562), we obtain the following minima and means and maxima, and their difference from the observed values.

Depth	Minimum			Mean	Maximum		
	$- \frac{1}{2} \text{ Range} - 15^{\circ}$	Obs.	Diff.		$+ \frac{1}{2} \text{ Range} - 15^{\circ}$	Obs.	Diff.
0 m.	$-29^{\circ}75$	$-29^{\circ}7$	$0.05$	$0^{\circ}0$	$-0^{\circ}25$	$-0^{\circ}2$	$0^{\circ}05$
0.4	$-28.3$	$-24.3$	$4.0$	$-2.8$	$-1.7$	$-0.2$	$1.5$
0.8	$-27.0$	$-20.2$	$6.8$	$-4.9$	$-3.0$	$-0.1$	$2.9$
1.2	$-25.85$	$-17.0$	$8.85$	$-6.5$	$-4.15$	$-0.05$	$4.1$
1.6	$-24.8$	$-13.7$	$11.1$	$-8.0$	$-5.2$	$-0.3$	$4.9$
2.0	$-23.85$	$-11.8$	$12.05$	$-9.0$	$-6.15$	$-0.2$	$5.95$
3.0	$-21.85$	$-7.9$	$13.95$	$-10.9$	$-8.15$	$-0.35$	$7.8$

In all depths the observed temperatures are higher than the temperatures computed from the supposition of a deep layer of ice; and the deeper the sheet lies, the greater is the excess of temperature. The ice is warmed from beneath, from the sea-water; and the differences of the table give a measure for this warming.

The computed annual and monthly temperatures of the ice at the depth of 3 metres are shown in the Table on p. 562. Supposing the boundary between the ice and the sea-water to lie at the depth of 3 metres, and the temperature of the water to be  $-1^{\circ}6$ , we get the following differences between the water and the ice (+, water warmer, —, colder than the ice) at this depth.

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
+ 4 <sup>5</sup>	+ 5 <sup>8</sup>	+ 6 <sup>3</sup>	+ 5 <sup>7</sup>	+ 4 <sup>3</sup>	+ 2 <sup>4</sup>	+ 0 <sup>5</sup>	- 0 <sup>8</sup>	- 1 <sup>2</sup>	- 0 <sup>7</sup>	+ 0 <sup>7</sup>	+ 0 <sup>7</sup>	+ 2 <sup>5</sup>

The average for the year gives the water warmer than the ice. In August, September and October, the ice is warmer than the water, from November to July, the water warmer than the ice. The total effect is that the colder ice in the course of every year causes the water to freeze, and thus adds to the thickness of the ice.

On the other hand it may be remarked, that the temperature of the air on the route of the Fram is normally, as we have already seen (p. 483), above 0° for 18 days, from the 6<sup>th</sup> to the 24<sup>th</sup> July. In the sunny season the radiation from the sun cannot raise the temperature of the surface consisting of frozen water above zero; and its power is consumed in melting snow and ice. The air with a temperature higher than zero is derived from warmer regions by winds. The maximum temperature of the surface is 0°. The melting and evaporation of the ice at the surface at this time of the year are reducing the thickness of the ice. The period of melting is short, and it is during this period that the evaporation is effectual. As soon as the snow has begun to cover the ice, the evaporation from the surface of the snow begins, the surface of the ice being protected against evaporation by the covering of snow. The reduction of the thickness of the ice from its upper surface may be assumed to be comparatively slight.

The isopleths on Pl. X show the following march of the temperature of the ice in the course of the year.

During the autumn and the winter the surface is constantly radiating heat into the atmosphere and space, and its temperature decreases. As the lower layers of the ice have a higher temperature, increasing with the depth, there is a current of heat from below upwards towards the surface. From the beginning of November, the underlying water is warmer than the lower surface of the ice, and the upward current is thereby increased. This excess of the temperature of the water increases during the cooling of the ice from above, and the heat from the water militates against the cooling, and prevents the ice from reaching such low temperatures as it would do in consequence of the cooling from above through a sheet of ice with a thickness equal to

the depth to which the annual periodic variation of the temperature of the surface could extend its influence. The colder under surface of the ice causes the water in contact with it to freeze, and the water lower down to reach its annual minimum of temperature in winter or spring.

From January to March, the surface minimum of temperature is travelling downwards through the ice.

In spring the temperature of the surface increases, owing to the fact that the absorption of heat from the radiation of the sun is greater than the loss of heat by radiation and evaporation. A wave of heat is propagated downwards, and raises the temperature of the ice. At the same time the current from the water sends heat from below. The retardation of the wave from the surface causes the isopleths to take a more vertical direction, the vertical thermal gradient diminishes, and the effect of the current from below, unlike that of the autumn, is to cause a decrease. The rise of the temperature in spring almost corresponds with the fall in the autumn.

At the end of spring or the beginning of summer, the temperature is nearly the same, about  $-3^{\circ}5$ , at all depths of the ice.

During summer the higher temperature of the air and the surface sends a heat-wave downwards, raising the temperature in the uppermost strata to zero, and continuing its course, with a certain amount of lag, to the deeper layers, where the temperature, between  $0^{\circ}$  and  $-1^{\circ}$ , becomes higher than that of the underlying water, and contributes to raise the temperature of the water to its summer or autumn maximum. In August the temperature seems to be highest at the depth of 1.2 metres, and to decrease from this depth upwards and downwards. In September the temperature steadily increases with the depth, but decreases on the whole in all depths. At the end of October the lower surface of the ice is cooled down to the temperature of the water.

The reason why the temperature of the ice does not accord with the theory for the temperature of the soil is, as we have seen, to be found in the fact that the ice has not a sufficient thickness, and that there is an almost constant source of heat beneath it in the polar water on which it floats. The ice-covering protects the water from losing heat by radiation and evaporation. The conversion of water into ice on the under surface of the ice goes on at a slow rate, the latent heat given out in freezing being considerable, but every



year it more than counterbalances the loss of ice on the upper surface, and every year adds to the thickness of the ice. Prof. NANSEN has informed me that his observations show that the thickness of the drifting ice increased with the more westerly position of the Fram. When the ice formed in the Polar Basin reaches the North Atlantic Ocean and the Greenland Sea, and comes in contact with the Gulf Stream, it melts and loses in thickness.

The observations of the ice-temperatures instituted by Prof. NANSEN, and carried out, in spite of many difficulties, under the supervision of Capt. SCOTT-HANSEN, have thus, I believe, led to the discovery of important facts and an extended insight into the work of Nature in the high polar regions.



## THE DISTRIBUTION OF ATMOSPHERIC PRESSURE AND TEMPERATURE OF THE AIR AROUND THE NORTH POLE.

As the Fram reached higher northern latitudes than any well-equipped meteorological expedition or station, and brought back a series of exceedingly well made observations covering a period of three years, from a region hitherto unvisited by man, I have felt it worth while to construct new charts, showing by means of isobars and isotherms the distribution of the atmospheric pressure and the temperature of the air over the arctic regions, utilising for this purpose, and for the regions around the North Pole, the results found from the observations made by the officers and crew of the Fram. In order to connect these results with those found for lower latitudes, I have extended the charts to the 60<sup>th</sup> degree of latitude, and for this purpose have made use of the following publications.

For the construction of the *isobaric* charts.

1. Klima-Tabeller for Norge. II. Lufttryk. Af H. MOHN. Videnskabs-selskabets Skrifter. I. Math. naturv. Klasse. 1896. No. 1.
2. La Pression atmosphérique moyenne en Suède, 1860—1895, par H. E. HAMBERG. Stockholm, 1898.
3. Osservazioni scientifici eseguite durante la spedizione polare di S. A. R. LUIGI AMADEO DI SAVOIA, duce degli Abruzzi 1899—1900.
4. Atlas climatologique de l'empire de Russie publié par l'Observatoire Physique Central Nicolas. St. Petersburg, 1900.
5. Pacific Coast Pilot. Coasts and Islands of Alaska. Second Series. Appendix 1. Meteorology. W. H. DALL. Washington, 1879.

6. Report on the Scientific Results of the Voyage of H. M. S. CHALLENGER during the years 1873—76. Physics and Chemistry. Vol. II. Part V. Report on atmospheric circulation. By ALEXANDER BUCHAN, M. A., L. L. D. London, 1889.
7. Répartition de la pression atmosphérique sur l'océan Atlantique septentrional d'après les observations de 1870 à 1889. Par G. RUNG. Copenhague, 1894.

Besides these printed publications, I have been able to utilise the observations made by Capt. SVERDRUP's Fram-Expedition at Hayes Sound and Jones Sound, in the years 1898 to 1902.

The charts, Plates XI—XIII, give the pressure at sea-level and the standard gravity.

As we have no means for reducing the barometer-observations of the Fram to monthly normals, the position of the ship being too far from any regular meteorological station with a long series of observations, I have been obliged to use the Fram-observations with a certain freedom in drawing the isobars, taking sometimes a kind of mean for 2 or 3 years, and making allowance for the direction of the wind in accordance with the baric wind-law. Great assistance in drawing the isobars in the interior arctic regions is given by the observations from the continents and their shores, and from the islands repeatedly visited by scientific expeditions.

In all months we find the North Atlantic minimum of pressure more or less developed. With the exception of June, in which month it lies over Southern Greenland, we find it in Davis Strait, southwest or west of Iceland, over the Norwegian Sea, and in the colder months farther eastwards in the north of Russia and Siberia.

On the other side we find the Pacific minimum south of Bering Strait and in Alaska.

The divide between these two regions of lower pressure extends from North America generally to Eastern Siberia. Its existence and position has already been pointed out by Prof. SUPAN, who has given it the name of "*Die arktische Windscheide*" (The arctic wind-divide).<sup>1</sup>

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<sup>1</sup> PETERMANN'S Mitteilungen 1891, p. 191.

From September to March we have maxima of pressure in North America and Siberia, in all months most strongly developed in Asia. The two maxima are connected by a ridge of somewhat lower pressure, forming the wind-divide. This ridge is located between Bering Strait, and the North Pole. It is probable that it migrates from month to month, but the absence of observations in this region does not, it seems to me, allow any reasonable conclusions to be drawn as to its movements. In April the high pressure in Siberia gives way, and the maximum pressure is located on the American side. This state continues during May, and at the same time the summer minimum in Siberia is steadily increasing in depth. In June we find the highest pressure over arctic North America and at Spitzbergen. In July and August the maximum lies between Greenland and somewhat east of Spitzbergen.

The Atlantic minimum of pressure extends, from September to April, from Greenland far eastwards into the inner Arctic Ocean. From May to August it is much more feebly developed, and in June it is only found in the western part of South Greenland.

The contrast between the distribution of pressure in the cold and the warm part of the year is also to be seen in the magnitudes of the pressure-gradients. These are stronger in the winter months, and much more feeble in the summer months.

The pressure at the North Pole seems to have its maximum, — about 764 mm. — in April, and minimum — 759 mm. — from June to September. This gives an annual range of only 5 mm.

Along the route of the Fram, from the New Siberian Islands to the north of Spitzbergen, the isobars indicate in the winter months south-easterly to easterly, relatively strong, winds on the north side of the Atlantic depression, and in the summer months feeble winds from varying directions. This agrees with our Wind-Tables on pp. 284, 285 and 315.

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For the construction of the *Isotherms* (Pl. XIV—XVI, for the year Pl. XX, Sea-Level) I have employed the following publications:

1. Klima-Tabeller for Norge. I. Luftens Temperatur. Af H. MOHN. Videnskabselskabets Skrifter. I. Matem.-naturv. Klasse. 1895. No. 10.

2. H. E. HAMBERG. La pression atmosphérique moyenne en Suède, 1860—1895, p. 30,
3. Osservazioni scientifici . . . Duce degli Abruzzi,
4. NANSEN'S observations at the winter-hut on Franz Joseph's Land,
5. Atlas climatologique de l'empire de Russie,
6. DALL. Alaska,
7. J. HANN'S Handbuch der Klimatologie pp. 498, 508, 512, 527,
8. BUCHAN. Atmospheric Circulation. CHALLENGER Report,
9. Meteorologiske Middeltal og Extremer for Færøerne, Island og Grønland, Appendix til det Danske meteorologiske Instituts Aarbog for 1895. II. Del,
10. Dr. F. NANSEN'S Durchquerung von Grønland 1888. Erster Teil. Ergebnisse der astronomischen, magnetischen, trigonometrischen und meteorologischen Beobachtungen. Von Prof. H. MOHN. Ergänzungsheft No. 105 zu "Petermanns Mitteilungen". Gotha, 1892,

and the meteorological observations from SVERDRUP'S Expedition with the Fram, 1898—1902.

The above remarks about the drawing of the isobars must also be applied to the drawing of the isotherms. I have found the distribution of the temperature in the neighbourhood of the North Pole, given in the charts, by means of sections (latitude = abscissa, temperature = ordinates), along different meridians, the pole in the middle, and the known temperatures from the continents or other stations on each side. Through the points plotted in this way, I have drawn the curve that seemed most probable.

As regards the greater part of the regions north of the parallel of 60 degrees, the charts I have constructed do not show much difference from the recent charts of isotherms with which we are acquainted. Concerning the temperature at, and in the vicinity of, the Pole, the Fram-observations are likely to afford a nearer approximation to the truth, than the observations from lower latitudes. I have set forth the reason for the drawing of the isotherms for the interior of Greenland, in the memoir, no. 10 of the above named publications. I regard the strong radiation of heat in the thin air at the high level<sup>1</sup> of this region as the main cause of the low temperature. The

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<sup>1</sup> See the "Bathymetrical Chart of North Polar Seas" in the "Norwegian North Polar Expedition, 1893 to 1896", Vol. IV. Edited by FRIDTJOF NANSEN.

north *coast* of Greenland must have a higher temperature than the interior, notwithstanding the latitude.

In the winter months we have the cold pole in Siberia and the cold pole in Greenland. To these, my temperature-sections add a *third* cold pole at the North Pole. It does not coalesce with the Greenland one, the temperature on the north coast of Greenland, at the level of the sea, being higher.

While the Siberian cold pole turns into a maximum of temperature during summer, the cold poles in Greenland and at the North Pole remain through all the months of the year.

From the charts we find the *mean temperature for the months* at the North Pole (Column *M*) to be

	<i>M</i>	<i>C</i>	<i>M</i> - <i>C</i>
January . . .	- 41°	- 41°0	0°0
February . .	- 41	- 40·8	- 0·2
March . . . .	- 35	- 36·0	+ 1·0
April . . . .	- 28	- 26·3	- 1·7
May . . . . .	- 13	- 13·7	+ 0·7
June . . . . .	- 2	- 3·2	+ 1·2
July . . . . .	- 1	+ 0·7	- 1·7
August . . .	- 3	- 3·5	+ 0·5
September .	- 13	- 13·3	+ 0·3
October . . .	- 24	- 24·0	0·0
November . .	- 33	- 32·6	- 0·4
December . .	- 38	- 38·1	+ 0·1
Year . . . . .	- 22·66	<i>M.E.</i> = ± 0°66	

The harmonic analysis gives the equation

$$M = -22^{\circ}66 + 20^{\circ}88 \sin(266^{\circ}56' + m) + 2^{\circ}65 \sin(109^{\circ}7' + 2m).$$

Minimum - 41°4 January 30.

Maximum + 0°7 July 16.

Annual Range 42°1.

The equation for the annual period of the temperature of the Fram (p. 484) has rather smaller coefficients for the first and second term, and about the same phase-angles, as the equation for the Pole. The range for the Pole is greater than that for the Fram.

The calculated mean temperature for July at the Pole being above the melting-point of ice is probably only to be regarded as a result of computation. The chart gives only  $-1^{\circ}$ .

*The annual Range of the temperature* is shown on the chart, Pl. X. Maximum  $66^{\circ}$ , in Siberia; then comes North America with  $45^{\circ}$ , the North Pole with  $42^{\circ}$ , and Greenland with  $40^{\circ}$ . Minimum on the Atlantic and Pacific oceans. The North Pole has a continental climate.

*The annual migration of the isotherm for  $0^{\circ}$  C.* is shown on the two charts, Pl. XX, one for the movement in the first part of the year towards the Pole, and one for the movement in the latter part of the year from the Pole. July is represented on both charts. The open Atlantic Ocean shows a very small movement of the isotherm for  $0^{\circ}$  in the winter months.

In order to draw *the isabnormal lines* resulting from the temperature-charts, I first computed the normal or mean temperature for the latitudes  $60^{\circ}$ ,  $65^{\circ}$ ,  $70^{\circ}$ ,  $75^{\circ}$ ,  $80^{\circ}$  and  $85^{\circ}$  by taking out from the original charts, drawn on a larger scale, the temperature for each of these parallels and for each  $10^{\circ}$  of longitude, and taking the mean for each parallel of the respective 36 values. The result of this computation is shown in the following Table.

NORMAL TEMPERATURE FOR LATITUDES

	$60^{\circ}$	$65^{\circ}$	$70^{\circ}$	$75^{\circ}$	$80^{\circ}$	$85^{\circ}$	$90^{\circ}$
January . . . . .	$-16.1$	$-23.0$	$-26.3$	$-29.0$	$-32.2$	$-38.1$	$-41^{\circ}$
February . . . . .	$-16.1$	$-21.5$	$-25.8$	$-28.9$	$-32.5$	$-38.0$	$-41$
March . . . . .	$-10.2$	$-16.1$	$-22.4$	$-26.6$	$-30.6$	$-33.0$	$-35$
April . . . . .	$-2.8$	$-7.3$	$-14.0$	$-18.8$	$-22.7$	$-26.5$	$-28$
May . . . . .	$5.1$	$1.6$	$-4.4$	$-8.5$	$-10.0$	$-11.9$	$-13$
June . . . . .	$10.9$	$9.2$	$3.3$	$0.1$	$-1.1$	$-1.7$	$-2$
July . . . . .	$14.1$	$12.4$	$7.3$	$3.4$	$2.0$	$0.3$	$-1$
August . . . . .	$12.4$	$10.3$	$6.2$	$1.9$	$0.4$	$-1.8$	$-3$
September . . . . .	$7.7$	$4.7$	$0.3$	$-4.1$	$-7.7$	$-10.3$	$-13$
October . . . . .	$0.3$	$-4.1$	$-9.3$	$-14.0$	$-19.1$	$-22.2$	$-24$
November . . . . .	$-9.5$	$-14.5$	$-18.1$	$-20.8$	$-23.9$	$-29.2$	$-33$
December . . . . .	$-15.0$	$-20.6$	$-23.6$	$-25.5$	$-28.4$	$-34.2$	$-38$
Year . . . . .	$-1.1$	$-5.8$	$-10.7$	$-14.7$	$-18.1$	$-21.2$	$-22.7$

For each  $5^{\text{th}}$  degree of latitude and respective  $10^{\text{th}}$  degree of longitude, the difference between the temperature of each point and the normal temperature of the parallel was taken and put down on charts for each month and

the year. By means of these figures, I have drawn the isabnormal lines and copied them into the charts on Plates XVII—XIX, and XX. The line for  $0^{\circ}$  is drawn more heavily than the others. The lines for positive thermal anomaly are continuous, those for negative anomaly, dotted.

It follows from the definition of the isabnormal lines, that the zero-line must go through the Pole. In the vicinity of the Pole, the thermal anomaly is small.

The interior of Greenland has negative anomaly in all months. The Norwegian Sea has upwards of  $+ 25^{\circ}$  in January and February. The great continents have positive anomaly in summer (Siberia  $+ 6^{\circ}$ ), and negative anomaly in winter (Siberia  $- 25^{\circ}$  in January). The region between Bering Strait and the Pole has negative anomaly in all months, but generally less than 5 degrees.

To conclude I must remark that the results set forth in this chapter, and drawn from the Fram-observations, may be modified in several ways by future observations in the arctic regions.

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## BAROMETRICAL DEPRESSIONS AND THEIR MOTION.

The observations of the pressure of air, contained in pp. 26 to 248 of the journal, and still more clearly the barograph papers, show by the fall and rise that cyclonic weather-systems, barometrical depressions, or "Lows", were passing through the regions of the Arctic Ocean visited by the Fram.

The great distance between the Fram and any permanent or temporary meteorological station, makes it quite impossible to construct synoptic weather-charts by means of which we could find the position of cyclonic and anti-cyclonic systems, and study their depths or heights, their gradients, and their motions. What the observations show, for this purpose, is only the variation of the barometer and the change of the direction of the wind. These observations I have used in the following manner, in order to find out something more about the motions of barometric depressions, than the above-mentioned results from the general change of the direction of the wind (p. 287) and from the baric wind-roses (p. 399) and the wind-roses for the change of pressure (p. 400) have been able to do.

For the latitude,  $\varphi = 82^\circ$ , and the friction coefficient,  $k = 0.00007$ , we have the normal angle of deflection<sup>1</sup> of the wind's direction from the direction of the gradient,  $\alpha$  equal to  $64^\circ$ . A line drawn to the left of the wind's direction (the back to the wind) forming an angle of  $64^\circ$  with that direction will approximately show the direction of the gradient and the bearing of the centre of the depression. For each passing depression, such lines, drawn from the ship's position, will spread out so as to cover a sector, and their mean

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<sup>1</sup>  $\tan \alpha = \frac{2 \omega \sin \varphi}{k}$ .

direction will more or less distinctly indicate the bearing of the centre when it was nearest to the ship; while a line perpendicular to this bearing will indicate the direction of the track of the centre. If the wind changes to the opposite direction, and the sector covers about 180 degrees, then the centre passes the ship, and the amount of pressure in the centre at the same time may be ascertained. A useful test is to make the diverging gradient lines, reckoned from the ship's position, successively shorter with falling barometer and longer with rising barometer; but this cannot be done in all cases, as the lowest pressure apparently sometimes occurs before or after the nearest approximation of the centre.

The change of the direction of the wind, or of the corresponding gradient lines, may also be irregular, sometimes going opposite to the usual direction of change.

Irregularities such as these, where the motion changes its direction, even to the direct opposite, and also its rate, and the pressure changes at the very centre of a depression, are phenomena with which we are well acquainted from our own cyclonic systems.

From the curves registered by the barograph, I took out the cases in which a depression amounting to upwards of 10 millimetres was observed. For each such case I drew, by means of the observed directions of the wind, the gradient lines and the resulting bearing of the centre of the depression when nearest to the ship, and the direction of the track of the depression.<sup>1</sup> In some cases it was impossible to discover any regular motion of the depression. These cases are omitted in the following Table.

The Table gives, for each case,

(1) The number; (2) the year, month and days; (3) the duration of the passage in days, approximately; (4) the direction of the motion of the depression, the point of the compass (true direction) towards which it moves; (5) the bearing of the nearest approach of the centre to the ship; (6) the lowest pressure observed — at sea level; and (7) the highest wind-velocity observed during the passage.

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<sup>1</sup> The same method has been used by professor HILDEBRANDSSON in his discussion of the observations from Pitlekai. (*Vega-Expeditionens vetenskapliga lagtagelser, utgifna af A. E. NORDENSKIÖLD. Första Bandet p. 597*).

1 No.	2 Year, Month & Days	3 Dura- tion. Days	4 Centre moves towards	5 Bearing of least Distance	6 Lowest Pressure obs. m. m.	7 Highest Wind- Velocity m. p. s.
1.	1893. Sept. 8.—11.	4	NW	SW	735.5	9.7
2.	— Sept. 15.—18.	4	ESE	NNE	39.3	9.5
3.	— Sept. 27.—30.	3	ENE	NNW	53.9	11.0
4.	— Oct. 4.— 7.	4	SE	NE	52.9	10.8
5.	— Oct. 25.—28.	4	S	W	51.1	7.8
6.	— Nov. 6.— 8.	3	SE	NE	35.5	17.6
7.	— Nov. 14.—18.	4	NNE	WNW	49.7	14.2
8.	— Nov. 20.—22.	3	N	E	53.0	6.8
9.	— Dec. 4.— 8.	5	N	W	53.0	5.7
10.	— Dec. 11.—14.	3	E	Centre	65.7	6.0
11.	1894. Jan. 11.—15.	4	NNE	WNW	48.8	6.8
12.	— Jan. 19.—22.	3	NE	NW	60.1	10.0
13.	— Jan. 27.—29.	3	ESE	SSW	49.8	2.3
14.	— Feb. 8.—12.	4	SSW	WNW	58.6	6.3
15.	— Feb. 20.—24.	5	ESE	Centre	28.2	7.6
16.	— March 1.— 3.	3	ESE	Centre	26.0	12.5
17.	— March 16.—18.	2	SE	NE	41.7	6.6
18.	— March 22.—24.	3	ENE	NNW	35.7	10.2
19.	— March 29.—31.	3	E	Centre	34.3	8.8
20.	— Apr. 1.— 4.	3	NE	NW	31.0	10.8
21.	— May 6.— 9.	3	NE	NW	56.9	9.0
22.	— June 22.—24.	3	SE	NE	47.9	7.8
23.	— July 2.— 4.	3	E	N	45.9	10.5
24.	— Sept. 16.—17.	2	E	N	46.9	9.6
25.	— Oct. 3.— 9.	7	ENE	SSE	52.3	11.9
26.	— Oct. 18.—22.	4	NE	NW	44.9	12.3
27.	— Oct. 28.—32.	4	ESE	SSW	31.0	13.1
28.	— Nov. 17.—20.	4	SE	NE	55.1	8.7
29.	— Nov. 21.—23.	3	SSE	ENE	45.3	10.8
30.	— Dec. 9.—14.	5	SE	SW	44.2	9.0
31.	— Dec. 21.—27.	6	SE	SW	27.0	14.8
32.	— Dec. 27.—34.	7	WNW	NNE	730.8	8.6
33.	1895. Jan. 4.— 7.	3	SSE	WSW	57.7	6.2
34.	— Jan. 8.—10.	3	ESE	SSW	53.5	4.8
35.	— Jan. 11.—14.	3	E	Centre	44.5	12.3
36.	— Jan. 22.—27.	5	WNW	NNE	57.4	6.0
37.	— Jan. 29.—34.	5	ESE	NNE	67.1	9.6
38.	— Feb. 4.— 6.	3	S	E	69.6	9.8
39.	— Feb. 7.—10.	3	SW	NW	66.1	6.0
40.	— Feb. 17.—19.	2	N	W	71.7	5.7

1 No.	2 Year, Month & Days	3 Dura- tion. Days	4 Centre moves towards	5 Bearing of least Distance	6 Lowest Pressure obs. m. m.	7 Highest Wind- Velocity m p. s.
41.	1895. Feb. 19.—21.	3	N	W	67.1	6.8
42.	— Feb. 22.—25.	4	N	W	60.0	7.7
43.	— Apr. 4.—10.	7	N	W	65.1	6.0
44.	— Apr. 11.—16.	6	ESE	Centre	58.9	4.0
45.	— May 1.— 6.	5	S	W	53.7	10.0
46.	— May 11.—16.	6	ENE	SSE	52.3	6.8
47.	— May 20.—24.	4	E	S	44.2	10.4
48.	— June 28.—30.	3	WSW	SSE	47.8	11.5
49.	— July 5.— 8.	3	NE	NW	50.3	8.4
50.	— July 29.—34.	5	N	Centre	27.3	15.5
51.	— Aug. 16.—19.	4	W	N	43.7	8.2
52.	— Aug. 19.—25.	5	SSW	WNW	42.4	14.7
53.	— Aug. 31.—33.	2	N	W	46.0	12.9
54.	— Sept. 11.—21.	10	E	N	38.6	9.9
55.	— Nov. 16.—23.	7	E	N	46.2	5.6
56.	— Nov. 26.—32.	6	W	S	37.7	15.5
57.	— Dec. 3.— 8.	5	E	S	51.6	9.3
58.	— Dec. 10.—14.	5	ENE	SSE	51.5	10.9
59.	— Dec. 18.—20.	3	N	E	60.6	7.5
60.	— Dec. 27.—29.	3	SE	SW	48.9	7.2
61.	1896. Jan. 4.—10.	7	E	S	46.9	6.3
62.	— Jan. 11.—16.	5	W	S	49.9	6.3
63.	— Jan. 16.—18.	2	NE	SE	51.7	11.1
64.	— Jan. 31.—35.	4	ESE	SSW	39.8	17.2
65.	— Feb. 9.—12.	4	ENE	SSE	42.9	13.2
66.	— Feb. 14.—17.	4	E	Centre	45.2	8.3
67.	— Feb. 17.—20.	3	ENE	Centre	34.2	9.2
68.	— Feb. 20.—24.	4	NE	NW	24.1	18.0
69.	— Feb. 24.—30.	2	ENE	NNW	24.5	18.0
70.	— March 6.— 8.	2	ENE	SSE	54.1	11.4
71.	— Apr. 28.—31.	3	ESE	Centre	59.2	4.5
72.	— July 15.—18.	3	E	N	45.3	7.4
73.	— July 22.—25.	3	NNW	ESE	49.0	9.0

From this Table I have extracted and computed the following results.

	Number of Cases	Number of Days	Mean Duration, Days	Mean lowest Pressure mm.	Mean highest Wind- Veloc. m. p. s.
December . . . . .	9	42	4·7	748·1	8·8
January . . . . .	12	47	4·0	52·2	8·2
February . . . . .	12	41	3·4	49·4	9·7
March . . . . .	5	13	2·6	38·4	9·9
April . . . . .	4	19	4·7	53·5	6·3
May . . . . .	4	18	4·5	51·8	9·0
June . . . . .	2	6	3·0	47·8	9·7
July . . . . .	5	17	3·4	43·6	10·2
August . . . . .	3	11	3·7	44·0	11·9
September . . . . .	5	23	4·6	42·8	9·9
October . . . . .	5	23	4·6	46·4	11·2
November . . . . .	7	30	4·3	46·1	11·3
Winter . . . . .	33	130	3·9	750·1	8·9
Spring . . . . .	13	50	3·8	47·1	8·5
Summer . . . . .	10	34	3·4	44·6	10·6
Autumn . . . . .	17	76	4·5	45·2	10·9
October to March .	50	196	3·9	746·8	9·9
April to September	23	94	4·1	47·2	9·5
3 Years . . . . .	73	290	4·0	747·0	9·7

The number of cyclonic systems within whose sphere of influence the Fram has come, her barometer falling as much as 10 mm. and upwards, amounts to at least 73 in 3 years. The frequency of depressions has a clearly-defined annual period. It has its maximum (4 per month) in January and February, and its minimum (0·7 per month) in June. The mean duration of the passage of a depression does not vary much in the several months or seasons; it is about 4 days.

In the course of 3 years we find 73 depressions with a fall or rise of the pressure of upwards of 10 mm., or about 24 per annum. Their passage has lasted 290 days, which gives 97 cyclonic days of the above-mentioned force.

The lowest atmospheric pressure at the Fram's station during the passage of a depression varies from 771·7 mm. to 724·1 mm., both in February. The distribution is as follows:

Pressure	Number
775 to 765 mm.	7
765 . 755 —	10
755 . 745 —	30
745 . 735 —	15
735 . 725 —	9
less than 725 —	2
The mean is 747·0 mm.	

The winter shows a little higher average than the other seasons. This is caused by the relatively large proportion of comparatively high minima of pressure observed in the depressions of the winter months.

As the lowest observed pressures in most cases are higher than the pressure at the centre of a passing depression, the figures in the Table are incapable of showing even an approximate value for the mean or absolute pressure of air in the centres of depression. We can only say that it must be below 747 mm.

The next Table contains 10 cases in which the centre of a depression has passed the Fram. In these cases the lowest pressure has been

765·7 in December, 1893
759·2 . April, 1896
758·9 . April, 1895
745·2 . February, 1896
744·5 . January, 1895
734·3 . March, 1894
734·2 . February, 1896
728·2 . February, 1894
727·3 . July, 1895
726·0 . March, 1894

The mean of these pressures is 742·3 mm., and we may take 740 mm. as an approximate value of the mean minimum pressure in a cyclonic centre. The lowest pressure observed on board the Fram is 724·1 mm., on the 22<sup>nd</sup> February, 1896. The absolute minimum in the Arctic Ocean is of course lower.

A list of the observed minima of pressure will be found on p. 396.

The velocity of the wind observed during the passage of depressions is not great. The highest is 18 m. p. s. and the mean of the highest observed is 9·7 m. p. s. The average velocity of the wind during the drift of the Fram is 4·5 m. p. s. (p. 309). The highest velocities observed in the various months are shown in the Table on p. 306. Their average is,

for 1893, 15·2 m. p. s.

- 1894, 12·3 —

- 1895, 12·0 —

- 1896, 12·6 —

and for the whole period, 12·7 m. p. s.

Judging from these velocities of the wind, the track of the Fram cannot be regarded as a stormy one, a fact which seems rather strange when we take into consideration the level nature of the surface of the earth. The coast and islands belonging to the Arctic Ocean show higher velocities of the wind. In published Reports I have found the following registered maximum velocities:

Pitlekai (Vega, Nordenskiöld) . . . . 1879 28·2 m. p. s.

Ssagastyr, Mouth of the Lena . . . . 1882 22 —

Karmakul, Novaya Zemla . . . . 1883 40 —

Teplitz Bay, Franz Joseph's Land . . 1900 24·8 —

Cape Thordsen, Spitzbergen . . . . 1882 20·5 —

Column 4 of the Table on p. 579 shows the direction of the motion of the barometrical depressions. The following Table shows the number of cases of each direction, for the entire period of 3 years, for the winter half-year (October—March), and for the summer half-year (April—September).

Direction towards	3 Years.	Winter.	Summer.
N	9	6	3
NNE	2	2	0
NE	7	4	3
ENE	9	8	1
E	12	7	5
ESE	10	8	2
SE	8	7	1
SSE	2	2	0
S	3	2	1

Direction towards	3 Years	Winter	Summer
SSW	2	1	1
SW	1	1	0
WSW	1	0	1
W	3	2	1
WNW	2	2	0
NW	1	1	0
NNW	1	0	1
Sum	73	53	20

The most frequent track of the barometrical depressions is towards *East*, both in winter and in summer. The least frequent tracks are SW and NW. The "Lows" may travel in all directions.

Depressions in which the barometer rises and falls more than 10 millimetres are much more frequent in winter than in summer. The proportion is as 53 to 20, or as 2·6 to 1.

Reducing, by Lambert's formula, the numbers in the foregoing Table to the four cardinal points, we obtain the following components:

	Year	Winter	Summer
N	21·6	15·2	6·5
E	41·7	31·1	10·6
S	17·3	13·5	3·8
W	8·3	5·6	2·7
N—S	4·3	1·7	2·7
E—W	33·4	25·5	7·9
and the resultant			
Direction .	E 7° N	E 4° N	E 19° N
Number . .	33·6	25·5	84
Percentage	46	48	42

The preponderance of the easterly motions is clearly shown by these numbers.



The 10 cases in which the centre of a depression has passed over the Fram give a mean duration of the passage of 3·8 days, and the following directions of the motion of the centre.

	N	ENE	E	ESE	Sum	Resultant
Number of cases	1	1	4	4	10	E 1° S; 8·6; 86 per cent.

This motion agrees very well with the general motion found above.

Taking the bearings of the least distance of the centres of depression from the Fram, and grouping them according to direction and season, we get the following Table, in which the numbers of cases have been reduced to 8 points of the compass.

	Winter 1893-94.		Summer 1894.		Winter 1894-95.		Summer 1895.		Winter 1895-96.		Summer 1896.		3 Years 1893-96.	
	n.	%	n.	%	n.	%	n.	%	n.	%	n.	%	n.	%
N	1·5	7·9	2	40	1·5	8·3	2	16·7	1·5	9·4	1	33·3	9·5	12·9
NE	3·5	18·4	1	20	3	16·7	0	0	0	0	0	0	7·5	10·3
E	1·0	5·3	0	0	1·5	8·3	0	0	1	6·2	0·5	16·7	4	5·5
SE	0	0·0	0	0	0·5	2·8	1	8·3	2·5	15·6	0·5	16·7	4·5	6·2
S	0·5	2·6	0	0	1·5	8·3	2	16·7	6	37·5	0	0	10	13·7
SW	1·5	7·9	0	0	3·5	19·5	0	0	1·5	9·4	0	0	6·5	8·9
W	3·5	18·4	0	0	3·5	19·5	3·5	29·2	0	0	0	0	10·5	14·4
NW	3·5	18·4	2	40	2	11·1	1·5	12·5	1·5	9·4	0	0	10·5	14·4
Centre	4·0	21·1	0	0	1	5·5	2	16·6	2	12·5	1	33·3	10	13·7
Sum	19	100·0	5	100	18	100·0	12	100·0	16	100·0	3	100·0	73	100·0

Barometrical depressions have passed on all sides of the Fram. There is a preponderance of depressions on the westerly side. In the first winter, the tracks of cyclonic systems lie chiefly north of the Fram; in the second winter, they are more evenly distributed on all sides, though those on the western predominate; and in the last winter, the tracks south of the Fram are by far the most frequent. The respective mean latitudes of the Fram are 79°, 82° and 85°. This seems to indicate that the general mean direction of track in 82° N. Lat. is nearly due East, the same result as found above.

The rate of the propagation of the barometrical minima cannot be properly found from observations from a single place. In order to arrive at an opinion as to this rate in the Arctic Ocean, I have made the following computations, requesting that they may be looked upon as mere experiment.

The curve representing the values of the pressure in a regular barometrical depression takes a sinusoid form in the vertical section through the axis. This may be represented by parts of similar parabolas, one with a vertical axis upwards through the centre, and two congruent pieces of parabolas with vertical axis downwards, one at the front and one at the end of the depression. The parabolas meet on each side of the centre in symmetrical points situated at half the height of the total depression and at a distance from the centre of half the radius of the depression. In these points occurs the maximum dip of the curve or of the gradient, and also the maximum of the velocity ( $v$ ) of the wind. The abscissae ( $x$ ), reckoned horizontally, are measured in degrees of meridian, and the ordinates ( $y$ ) in millimetres.

We have then in the parabola

$$y = px^2; \frac{dy}{dx} = 2px = \text{the gradient } G, \text{ and } x = \frac{2y}{G}.$$

$$\text{From the equations}^1 \quad \frac{\mu}{\varrho} G \sin \alpha = 2\omega v \sin \varphi$$

$$\frac{\mu}{\varrho} G \cos \alpha = kv$$

we get

$$\tan \alpha = \frac{2\omega \sin \varphi}{k}$$

$$G = \frac{2\omega \varrho v \sin \varphi}{\mu \sin \alpha}$$

$$\log \mu = 6.08768 \quad \varrho = [8.67545] \frac{b}{273 + t}$$

Taking the latitude  $\varphi = 82^\circ$  and the friction coefficient  $k = 0.00007$  we get  $\alpha = 64^\circ$ . The mean pressure ( $b$ ) being 750 mm., and the mean minimum pressure about 740 mm., I take for the maximum wind-velocity  $y = 10$  mm. The mean temperature of the 73 depressions is  $-24.5^\circ$ . The velocity of the wind, the mean maximum, taken from the table on p. 306, equals 9.7 m. p. s.

<sup>1</sup> Zeitschrift der österreichischen Gesellschaft für Meteorologie. Bd. XII, 1877, p. 52.

From these data we get  $G = 1.82$  mm. per meridian degree, and  $x = 11.00$  meridian degrees or 1222 kilometres. The diameter of the depression is  $4x$  or 4889 kilometres. Generally the centre passes on one side of the Fram, and the depression travels only along a chord of its circumference. Considering this circumference to be circular, and the distance of the chord equal to  $x$ , the length of the chord is  $4x \times \sin 60^\circ$  or  $0.866 \times 4x$  or  $3.464x$ , or 4233 kilometres. This chord is traversed in 4 days, or 96 hours. The rate of propagation is  $4233:96$  or 44 kilometres an hour, or 12.2 metres per second.

Taking separately the 10 cases in which the centre has passed the Fram, we get a rate of 54 kilometres an hour, or 15 metres per second ( $b = 751.6$  mm.;  $y = 751.6 - 742.3 = 9.3$  mm.;  $t = -25.3$ ;  $v = 8.9$  m. p. s.;  $G = 1.675$ ;  $x = 11.10$ . Duration = 3.8 days).

In our European depressions, we frequently have a rate of 40 km. per hour (11 m. p. s.), and 90 km. an hour (25 m. p. s.) has been found several times. In North America we have on an average 12.8 m. p. s., on the North Atlantic Ocean 8.1 m. p. s., and in Europe 7.5 m. p. s. In Europe, the mean rate is greatest — 9 to 10 m. p. s. — between Iceland and Norway, and least — 6 m. p. s. — in Finland.

The above-calculated rates for the Arctic Ocean — 12 to 15 m. p. s. — are of the same order as those found by means of synoptic charts in other parts of the globe.

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## THE DIURNAL AND ANNUAL PERIODS OF THE METEOROLOGICAL ELEMENTS IN THE ARCTIC CIRCUMPOLAR SEA.

We have seen that the diurnal and annual periods of the meteorological elements described above exhibit some features known from other parts of the world, but also some features which seem peculiar to high latitudes and to the low, flat ice-desert in which the Fram was drifting. In order to obtain a better insight into the processes going on in the lower atmosphere in these regions, previously unexplored, processes resulting in the periods, I have found it appropriate to put together the following considerations.

The main factor in these processes is the radiation from the sun. In order to find an expression for the force and effect of this radiation, I have made the following computations for each mean month of the drift of the Fram (mean of 3 or 2 years).

The mean latitude,  $\varphi$ , for each month has been taken from the Table on p. 471; it is the mean latitude at noon. The declination,  $\delta$ , of the sun's centre, is the mean of the declinations at mean *local* noon, computed from the Tables of the Nautical Almanac.

The altitude,  $\alpha$ , of the sun's centre is

$$\text{at noon } \alpha = \delta + (90^\circ - \varphi) \quad \text{at midnight } \alpha = \delta - (90^\circ - \varphi)$$

The hour-angle,  $t$ , of the sun's centre, when the upper limb of the sun is on the horizon, is found by the equation

$$\cos t = \frac{\cos \zeta - \sin \varphi \cdot \sin \delta}{\cos \varphi \cdot \cos \delta}$$

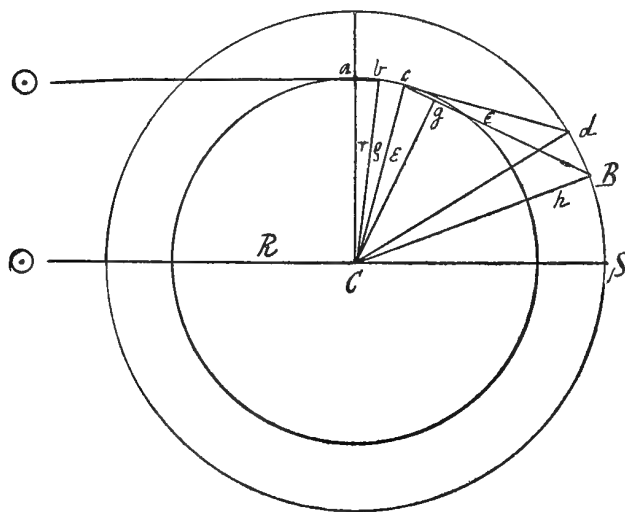
where  $\zeta$  is the zenith-distance of the sun's centre. The depression of the sun's centre is  $r + \varrho$ ,  $r$  being the sun's semi-diameter, and  $\varrho$  the horizontal refraction. I have assumed that  $r$  equals 16' and  $\varrho$  equals 40', according to the low temperature (in the dark season — 30° C) prevailing during the drift of the Fram. Hence  $r + \varrho = 56'$  and, for logarithmical calculation,

$$\sin \frac{2t}{2} = \sec \varphi \sec \delta \sin \left( \frac{90^\circ 56' + (\varphi - \delta)}{2} \right) \sin \left( \frac{90^\circ 56' - (\varphi - \delta)}{2} \right).$$

For the corresponding azimuth of the sun's centre  $\alpha$ , we have

$$\sin a = \sin t \cdot \cos \delta \cdot \operatorname{cosec} \zeta = \sin t \cdot \cos \delta \cdot \operatorname{cosec} 90^\circ 56'.$$

When the sun is below the horizon, and the depression of its centre is less than about  $16^\circ$ , we have more or less of the sky illuminated by the sun. This is the *Twilight*. The highest point of the line of demarcation between the twilight and the shadow of the earth lies in the vertical of the sun.



Let  $Ca = Cb = Cc$  be the radius of the earth ( $R$ ) and  $\odot CS$  a ray from the sun's centre through the centre of the earth,  $\odot a$  another ray which would be tangent to the earth in  $a$  if there were no refraction in the atmosphere. The ray from the sun's upper limb would be tangent in the point

$b$ , the angle  $aCb$  being equal to the semi-diameter ( $r$ ) of the sun. The ray from the upper limb of the sun will be deflected by the horizontal astronomical refraction ( $\varrho$ ) so as to touch the earth in a point  $c$ , the angle  $bCc$  being equal to  $\varrho$ . From the point  $c$  the ray pursues its way through the atmosphere and becomes deflected by the terrestrial refraction from the direction of the tangent  $cd$ , so as to meet that highest layer of the atmos-

phere of which the air is capable of reflecting visible light in the point  $B$ , whose height above the earth is  $h$ . This terrestrial horizontal refraction is a little less than the astronomical horizontal refraction. It is represented in the figure by the angle  $\varepsilon$ , or  $d c B$ , which is equal to the angle  $c C g$ .

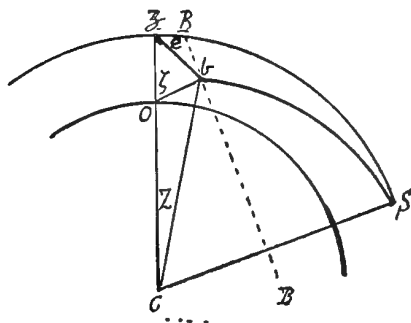
We have thus

$$\cos c C d = \cos \beta = \frac{R}{R+h}.$$

$$g C = R \cos \varepsilon; \cos g C B = \cos \beta' = \frac{R \cos \varepsilon}{R+h} = \cos \beta \cdot \cos \varepsilon.$$

The geocentric angular radius of the twilight arch is

$$B C S = 90^\circ - (\beta' + r + \varrho + \varepsilon) = 90^\circ - (\beta' + k), \text{ when } r + \varrho + \varepsilon = k.$$



An observer in the point  $O$  sees the demarcation line between the twilight and the earth's shadow as an arch,  $BB$ . To him, a point  $b$  in the arch has the true zenith-distance  $3Ob$ , or  $\zeta$ , and an azimuth,  $S3b$ , or  $e$  reckoned from the sun's meridian on the opposite side of the sun. The geocentric zenith-distance of  $b$  is  $3Cb$  or  $Z$ . The geo-

centric angular radius of the earth's shadow, or the twilight arch is  $bCS$ , which is equal to  $BCS$  or  $90^\circ - (\beta' + k)$ . The depression ( $\alpha$ ) of the sun's centre below the horizon of  $O$  is  $90^\circ - 3CS$ , or  $3CS = 90^\circ - \alpha$ . We then have in the spherical triangle  $3bS$

$$\sin (\beta' + k) = \cos e \cos \alpha \sin Z + \sin \alpha \cos Z,$$

and in the plane triangle  $bOC$

$$\frac{\sin (\zeta - Z)}{R} = \frac{\sin \zeta}{R+h} \text{ or } \sin (\zeta - Z) = \cos \beta \sin \zeta$$

In order to obtain the true zenith-distance of the top of the twilight-arch,  $\zeta_0$ , we say  $e = 0$ , and hence

$$\sin (\beta' + k) = \sin (Z + \alpha), \quad \beta' + k = Z + \alpha, \quad Z = \beta' + k - \alpha$$

$$\sin (\zeta_0 - Z) = \sin \zeta_0 \cos Z - \cos \zeta_0 \sin Z = \cos \beta \sin \zeta_0$$

$$\cot \zeta_o = \frac{\cos (\beta' + k - \alpha) - \cos \beta}{\sin (\beta' + k - \alpha)} =$$

$$= \frac{2 \sin \left( \frac{\beta' + \beta}{2} + \frac{k}{2} - \frac{\alpha}{2} \right) \sin \left( \frac{\beta' - \beta}{2} + \frac{k}{2} - \frac{\alpha}{2} \right)}{\sin (\beta' + k - \alpha)}$$

The apparent zenith-distance is  $\zeta_o - \varepsilon$ . I have taken  $\varepsilon$  from the table given below.

In order to find the azimuth, reckoned from the antisolar vertical of the sun,  $e_o$ , of the point where the arch cuts the horizon of  $O$ , we say  $\zeta = 90^\circ + \varepsilon$ , and get  $\cos (Z - \varepsilon) = \cos \beta \cos \varepsilon = \cos \beta'$ , or  $Z = \beta' + \varepsilon$ . Hence

$$\cos e_o = \frac{\sin (\beta' + k) - \cos (\beta' + \varepsilon) \sin \alpha}{\sin (\beta' + \varepsilon) \cos \alpha}$$

$$\text{or } \tan^2 \frac{e_o}{2} = \frac{\cos \left( \beta' + \frac{k}{2} + \frac{\varepsilon}{2} + \frac{\alpha}{2} \right) \sin \left( \frac{\varepsilon}{2} - \frac{k}{2} + \frac{\alpha}{2} \right)}{\sin \left( \beta' + \frac{k}{2} + \frac{\varepsilon}{2} - \frac{\alpha}{2} \right) \cos \left( \frac{\varepsilon}{2} - \frac{k}{2} - \frac{\alpha}{2} \right)}.$$

For computation I assume that  $R = 6398.147$  km.,  $\log R = 3.80605$  ( $\varphi = 83^\circ$ ),  $h = 53$  km.,  $r = 16'$ ,  $\varrho = 40'$  (Mean temperature of the dark season  $= -30^\circ$ ) and  $\varepsilon = 30'$ . The value for  $\varepsilon$  I have taken from a table given by Prof. *Fearnley* in "Forhandlinger i Videnskabselskabet i Christiania, Aar 1859", p. 137. This table, of which the argument is the apparent zenith-distance, I have transformed into the following table with the argument true zenith-distance  $\zeta$ .

$\zeta = 0^\circ$	$45^\circ$	$60^\circ$	$70^\circ$	$75^\circ$	$80^\circ$	$85^\circ$	$86^\circ$	$87^\circ$	$88^\circ$	$89^\circ$	$90^\circ$	$90^\circ 27' 4$	
$\varepsilon$	$0' 0$	$0' 8$	$1' 5$	$2' 2$	$3' 0$	$4' 5$	$8' 3$	$9' 4$	$11' 3$	$14' 0$	$17' 9$	$23' 0$	$27' 4$

The table is applicable to ordinary temperatures. For the low temperatures prevailing at the Fram's station, I have taken the horizontal refraction  $\varepsilon$  to be  $30'$ .

We get thus

$$\beta = 7^\circ 20', \beta' = 7^\circ 21' 5, \frac{\beta' + \beta}{2} = 7^\circ 21'; k = 16' + 40' + 30' = 86';$$

$$\frac{k}{2} = 43'; \frac{\varepsilon}{2} = 15',$$

$$\cot \zeta_o = \tan h_o = 2 \cdot \frac{\sin \left( 8^\circ 4' - \frac{\alpha}{2} \right) \sin \left( 0^\circ 44' - \frac{\alpha}{2} \right)}{\sin (8^\circ 47' - \alpha)},$$

apparent  $h = h_o + \varepsilon$ .

$\zeta_o$  positive from the zenith *towards* the sun.

$$\tan^2 \frac{e_o}{2} = \frac{\cos \left( 8^\circ 19' + \frac{\alpha}{2} \right) \sin \left( \frac{\alpha}{2} - 0^\circ 28' \right)}{\sin \left( 8^\circ 19' - \frac{\alpha}{2} \right) \cos \left( \frac{\alpha}{2} + 0^\circ 28' \right)}$$

$e_o$  reckoned from the antisolar part of the sun's vertical.

The top or apex of the twilight rises or sets on the horizon, when  $\zeta_o = 90^\circ$  or  $h_o = 0^\circ$  or when  $\alpha = \beta' + \beta + k$ , and when  $\alpha = \beta' - \beta + k$ . The last equation corresponds with the rising or setting of the sun, the first with the rising or setting of the apex of the arch in the vertical of the sun. The apparent zenith-distance of the apex is  $90^\circ$  when  $\alpha = \beta' + \beta + k + \varepsilon$  or  $= 16^\circ 38'$ . The hour-angle of this moment,  $t$ , is given by the formula

$$\sin^2 \frac{t}{2} = \sec \varphi \cdot \sec \delta \cdot \sin \left( \frac{106^\circ 38' + (\varphi - \delta)}{2} \right) \cdot \sin \left( \frac{106^\circ 38' - (\varphi - \delta)}{2} \right).$$

and the corresponding azimuth  $\alpha$

$$\sin \alpha = \sin t \cdot \cos \delta \cdot \operatorname{cosec} 106^\circ 38'.$$

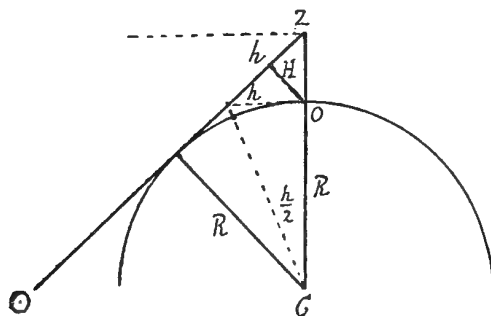
When the sun is below the horizon, it is shining in the vertical of a place above a certain altitude, which in the polar regions is of dimensions rather terrestrial than cosmical. The radiation of heat from the surface of the earth and from the sky may be partly dependent on the distance of the sun's rays from the surface. The shortest distance ( $H$ ) to the limit of the

earth's shadow,  $\odot Z$ , I have computed in the following manner:

The angle  $h = \alpha - (r + \varrho + \varepsilon)$   
 $= \alpha - (r + 2\varrho)$

the terrestrial horizontal refraction being nearly equal to the astronomical. We then have

$$H = R \cdot \tan \frac{h}{2} \sin h.$$





The thermal amount of radiation from the sun on the unit of surface perpendicular to the sun's rays is <sup>1</sup>

$$dq = \frac{C}{r^2} p^z dt$$

where  $C$  is the solar constant, referred to the mean distance of the earth from the sun, square centimetre and minute of time,  $r$  the distance of the earth from the sun,  $p$  the coefficient of transparency of the air, and  $z$  the ratio of the mass of the atmosphere traversed by the ray to the mass traversed by a ray from the zenith. I have assumed that  $C$  equals 3 gram calories,  $p$  equals 0.75, and  $z$  equals cosec  $h$  ( $h$  the altitude of the sun) for altitudes higher than 20°. For lower altitudes I have taken MAURER's values <sup>2</sup> for  $z$ , viz., for 5°, 8.04, and for 0°, 14.96, and taken the adopted values for  $z$  from a curve.

The radiation on a unit (sq. cm.) of a horizontal surface becomes

$$dq = \frac{C}{r^2} p^z \sin h dt.$$

I have taken the radiation of the sky from Clausius' numbers given by J. HANN<sup>3</sup>, and extrapolated the numbers graphically, making the radiation equal zero, when the apex of the twilight is below the horizon,  $\alpha = \beta' + \beta + k + \varepsilon$  or  $= 16^\circ 38'$ . The table then stands thus:

$h =$	$-16^\circ 38'$	$-10^\circ$	$-5^\circ$	$0^\circ$	$5^\circ$	$10^\circ$	$15^\circ$	$20^\circ$	$25^\circ$	$30^\circ$
$p^z$	0	0.004	0.013	0.027	0.046	0.07	0.09	0.11	0.13	0.14

The results of these computations are shown in the following Table.

<sup>1</sup> A. Angot. Recherches théoriques sur la distribution de la chaleur à la surface du globe. Annales du Bureau Central météorologique de France. Année 1883. Paris, 1885.

<sup>2</sup> Angot. l. c., p. 131.

<sup>3</sup> Lehrbuch der Meteorologie, p. 42.

	October	November	December	January
Mean latitude $\varphi$ . . . . .	81°51'	82°2'	82°23'	82°37'
Mean declination of the sun $\delta$ . . .	— 8 49	— 18 25	— 23 2	— 20 42
Midnight. Sun's centre, altitude $\alpha$ . . . . .	— 16°58'	— 26°23'	— 30°39'	— 28°5'
— — — depression $\alpha$ . . . . .				
— Twilight-arch, altitude of apex $h$ . .				
— — — azimuth on the horiz. $e_0$ .				
— — — amplitude $2 e_0$ . . .				
Twilight begins, apparent time . . .	1h 5m a. m.	6h 47m a. m.	9h 46m a. m.	8h 9m a. m.
— — — in azimuth $\alpha$ . . .	N 16°7 E	S 57°9 E	S 32°1 E	S 55°6 E
— ends } apparent time	11h 1m a. m.			
Sun's upper limb rises } azimuth $\alpha$ . .	S 14°7 E			
Noon. Sun's centre, altitude $\alpha$ . . . . .	0°40'			
— — — depression $\alpha$ . . . . .		— 10°27'	— 15°25'	— 13°19'
— Twilight-arch, altitude $h$ . . . . .		15° 1'S	1° 7' S	3°50' S
— — — azimuth on the horiz. $e_0$ .		78° 5 f. S	32° 8 f. S	55° 4 f. S
— — — amplitude $2 e_0$ . . . . .		157° 1	65° 6	110° 8
Sun's upper limb sets } apparent time	0h 59m p. m.			
Twilight begins } azimuth $\alpha$ . .	S 14°7 W			
Twilight ends, apparent time . . .	10h 55m p. m.	5h 13m p. m.	2h 14m p. m.	3h 51m p. m.
— — — in azimuth $\alpha$ . . . . .	N 16°7 W	S 75°9 W	S 32°1 W	S 55°6 W
Duration of sunshine . . . . .	1h 58m			
— . twilight . . . . .	19h 52m	10h 26m	4h 28m	7h 42m
— . full night . . . . .	2h 10m	13h 34m	19h 32m	16h 18m
Noon. Distance to sunbeam near zenith. Km. $H$ .		76·2	185·1	133·3
Midnight — . . . . .	228·7	589·3	804·9	671·4
Difference . . . . .		513·1	619·8	538·1
Noon. Sun's radiation. Gram cal. per min. and sq. cm.	0·047	0	0	0
— — rad. horiz. — . . . . .	0·001	0	0	0
— Sky's — — — . . . . .	0·090	0·012	0·0005	0·003
— Sum of rad. — — . . . . .	0·091	0·012	0·0005	0·003
Midn. Sun's radiation. — . . . . .	0	0	0	0
— — rad. horiz. — . . . . .	0	0	0	0
— Sky's — — — . . . . .	0	0	0	0
— Sum of rad. — — . . . . .	0	0	0	0
Radiation. Noon minus midnight . . . . .	0·091	0·012	0·0005	0·003

February	March	April	May	June	July	August	September
82° 40' — 12 45	82° 41' — 1 41	82° 57' 9 53	83° 12' 18 55	83° 6' 23 5	82° 54' 21 7	81° 41' 13 35	83° 7' 2 51
— 20° 5'	— 9° 0' 65° 10' N 89° 2 f. N 178° 4	2° 50'	12° 7'	16° 11'	14° 1'	5° 16'	— 4° 12' 3° 27' S 127° 5 f. N 255° 0
3h 49m a. m. N 58° 9 E	6h 23m a. m. S 84° 0 E						3h 48m a. m. N 56° 6 E
— 5° 25' 6° 24' N. 115° 8 f. S. 231° 6	5° 48'	16° 56'	25° 43'	29° 59'	28° 13'	21° 54'	9° 44'
8h 11m p. m. N 58° 9 W	5h 37m p. m. S 34° 0 W						8h 12m p. m. N 56° 6 W
16h 22m 7h 38m	11h 14m 12h 46m 0h 0m	24h 0m 0h 0m 0h 0m	24h 0m 0h 0m 0h 0m	24h 0m 0h 0m 0h 0m	24h 0m 0h 0m 0h 0m	24h 0m 0h 0m 0h 0m	16h 24m 7h 36m 0h 0m
14·2 330·0 315·8							
0 0 0·038 0·038	0·350 0·035 0·150 0·185	1·169 0·340 0·297 0·637	1·511 0·656 0·378 1·034	1·634 0·817 0·406 1·223	1·570 0·742 0·394 1·136	1·348 0·503 0·344 0·847	0·675 0·114 0·204 0·318
0 0 0 0	0 0 0·017 0·017	0·167 0·010 0·112 0·122	0·827 0·174 0·235 0·409	1·093 0·305 0·285 0·590	0·973 0·236 0·261 0·497	0·309 0·028 0·138 0·166	0 0 0·045 0·045
0·038	0·168	0·515	0·625	0·633	0·639	0·681	0·273

We see from this Table that the visible radiation from the sun reaching the surface of the earth in the dark season, is only indirect, or brought about by means of the sky or the twilight, and that it is inconsiderable, particularly in December, even at noon; while there is no radiation from this source reaching the surface of the earth at midnight.

In the equinoctial months, at noon, we have both the direct radiation of the sun, and that of the sky or twilight, but at midnight only the radiation from the latter.

In the sunny season we have to do with both kinds of radiation, at midnight as well as at noon.

The difference between the amount of the total radiation at noon and at midnight, or the diurnal range of the radiation, on a unit of horizontal surface, has an annual period with a minimum in December and a maximum in the summer months. The fact that the maximum in our Table is to be found in August and not earlier, is due to the relatively lower mean latitude of the Fram in August.

The diurnal variation of the radiation is the chief factor that determines the diurnal periods of the various meteorological elements.

The principal meteorological effect of the radiation from above, is the heating of the atmosphere and the surface of the earth. This surface consists, in the present case, during the whole year, chiefly of frozen water, snow and ice, and only in the summer months partly of melted water. The energy of the radiation is mainly exerted in warming and evaporating ice, and in summer in melting and evaporating ice, and partly warming and evaporating the melted ice.

On the other hand, radiation of heat from the surface of the earth into space, the sky and the clouds, is always going on.

The radiation from the sun and sky, and the radiation from the earth, have the greatest effect when the sky is clear.

The effect of both radiations upon the surface of the earth is checked by clouds. With an overcast sky the radiation from above is screened off, more or less, from the earth, and the radiation from below is radiated back to the surface of the earth.

The radiation from the sun tends to warm the surface of the earth, and the radiation from the surface to lower its temperature. Which of these

radiations prevails over the other, and whether the resulting effect is to warm or to cool the surface of the earth, and to cause the temperature of the air to rise or to fall, are questions dependent chiefly upon the altitude of the sun.

That the radiation from the *twilight* has an appreciable heating power seems to be distinctly proved by the observations from the *Fram*. We have found the annual minimum temperature of the air to occur as early as the end of January or the beginning of February (p. 483, and note, p. 484), though the sun appears above the horizon as late as about the beginning of March. In the mean time, the twilight is rapidly increasing in duration and extent (Table, pp. 594, 595), and seems to act as a heat-twilight (*Wärme-Dämmerung*), as DOVE has called it.

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The diurnal period of the *velocity of the wind* (pp. 292 and 293, Pl. I) comes out very distinctly in the different seasons, with a minimum in the night and a maximum a little past noon, in accordance with the general rule found elsewhere in the lower strata of the air. The range is small, only a fraction of one metre per second. This phenomenon is generally explained by the ESPY-KÖPPEN theory.

This theory requires

- 1<sup>st</sup> that the velocity of the wind increases from the surface of the earth upwards,
- 2<sup>dly</sup> the presence of ascensional and descensional currents in the atmosphere, and
- 3<sup>dly</sup> that these currents be more strongly developed in the day-time than in the night.

We know that the diurnal period of the wind's velocity is generally well developed on land stations in latitudes where the sun shines during the day, and feebly, or not at all, on the sea. In the former case we have the more or less rugged surface of the earth acting as a resistance to the wind, and causing the lower air to move more slowly than the higher layers, and presenting different conditions in adjacent patches of the surface for absorption of

the rays of the sun and atmosphere, and for radiation unto the sky, thus for the heating or cooling causing convectional currents. In the latter case we have a more or less smooth surface of the same quality throughout, reflecting the heat-rays and consuming their power by evaporation, without being able to produce differences of heating sufficiently strong to cause convectional currents comparable in strength with those on land.

The conditions under which the *Fram* was drifting across the arctic polar sea are in many respects different from those of ordinary meteorological stations. On a large scale, the surface of the earth is a level surface like the sea, the horizon is free, and no mountains or hills disturb the uniformity of the level. But on a small scale this surface is not at all level; it is rugged in the extreme, and presents hillocks and furrows, elevations and depressions, while the pressure-ridges form a network extending in every direction. And the physical nature of the surface, like that of the sea, is of a particular homogeneity, consisting as it does of frozen water in the form of snow or ice, and only in the middle of summer partly covered with liquid water.

The rugged surface of the ice acts as a resistance, causing the lowest layers of the air to move more slowly than the higher layers. The conditions for an increasing velocity of the wind with elevation were amply fulfilled in the case of the *Fram*. No direct measurements of the velocity of the wind were made with the anemometer at different heights, but Professor NANSEN's experience, as he has told me, was that the wind at the crow's nest, some 32 metres above the water-line (Vol. I. Pl. III) was always much stronger than at the height of a couple of metres above the surface of the ice.

The conditions for creating ascensional and descensional motions in the air above the polar ice are the same as on land.

(1) The radiation from the sun or the sky heats the surface, but the amount of this heating depends on the absorbing power of the surface. This power varies in snow, ice and water. The absorbing power of the snow may vary with its degree of freshness, compactness, or purity; that of the ice with its degree of roughness, transparency, or purity; and that of the water with its degree of agitation or saltiness. The effect of the radiation also depends upon the inclination to the horizon of the respective surface-element. The sunny side receives more heat from the sun or the atmosphere than the opposite or shady side. Under these circumstances, different parts or adjacent

patches of the surface become differently heated, and we have as a result convectional ascending and descending currents. A higher temperature is followed by a greater evaporation, and the greater lightness of the air produced by the aqueous vapours adds to the ascending power of the warmer parts of the air. The radiation upwards from the surface may also be locally different and create differences of cooling. But the general cooling of the surface by radiation tends to make the air above it heavier, sinking and stagnant. The calms are more frequent in all seasons in the night than in the day (pp. 307, 308; Pl. I).

(2) When there is a wind, the obstructions presented by the rugged surface of the ice will force the air-current to rise on the windward side, and to descend more or less directly on the leeward side. The stronger the wind, the greater will be the effect of the ruggedness in creating ascensional and descensional motions of the lower air.

All kinds of radiation are generally checked by clouds covering the sky, and this check increases with the amount of cloud. When the sun is above the horizon, detached clouds may sometimes increase the radiation of heat from the sky.

The radiation from the sun and the atmosphere has a diurnal period with a maximum at noon and a minimum at midnight or during the night. The convectional currents in the lower air caused by this radiation must have the same diurnal period, and the result is the diurnal period of the velocity of the wind. The descensional currents bring the upper air with its greater velocity down, and the ascensional currents carry the more slowly moving lower air up from the surface of the earth. The higher the sun, the more rapid is the convection; and the fresher the wind, the more does the effect of the obstructions increase the force of the ascensional and descensional currents. The lower the sun, the more does the radiation from the surface of the earth tend to make the lower layers of the air quiet.

The Tables on pp. 292 and 293, and Pl. I, show that the diurnal period of the velocity of the wind comes out as on land-stations with a maximum near or a little after noon, and a minimum in the early morning hours. The period is the same as that of the radiation from the sun and sky. The range (max.—min.) has an annual period. It is lowest in December, rises to a maximum in May, falls to a second minimum in July, and rises again to a

maximum in September and October. This period is not in accordance with the annual period of the radiation from the sun and sky.

I would here insert the following remark. The observations from the *Fram* embrace a comparatively short space of time, and the results drawn from them regarding the periods of the meteorological elements may in several instances be less trustworthy than if there had been a longer series of observations at our disposal. It will not do, therefore, to draw far-reaching conclusions as to the connection between the different phenomena, and between those phenomena and their probable causes. Regarding the velocity of the wind it must be borne in mind as a fact in favour of the observations, that they have always been made with the same anemometer, and are not estimated wind-forces<sup>1</sup>.

<sup>1</sup> The diurnal period of the force of the wind resulting from the *CHALLENGER* observations (*CHALLENGER* Report, Vol. II, p. 25) is derived from the wind's force *estimated* according to the Beaufort scale. Dr. BUCHAN says: "With respect to the open sea, it is evident from the mean curve for the five oceans that the diurnal variation is very small, there being apparently two indistinctly marked maxima about midday and midnight respectively . . . . It seems probable that the line representing the true diurnal variation in the velocity of the wind is practically a uniform straight line, with the single exception of a small rise about midday, not quite amounting to a mile per hour."

The observations from the Norwegian North-Atlantic Expedition 1876–1878 (Vol. II. Meteorology, pp. 125 to 128) which were made with hand-anemometer (in 1877 and 1878, the *same* instrument as that used on board the *Fram*) give as means for the three summers 1876–78 (88 days) in the Norwegian Sea the following result,  $\Delta v$  being the difference from the diurnal mean (in metres per second, smoothed):

Hour	$\Delta v$	Hour	$\Delta v$	Hour	$Dv$
2 a. m.	– 0·14	10 a. m.	+ 0·08	6 p. m.	+ 0·09
4 —	– 0·18	Noon	+ 0·16	8 —	+ 0·04
6 —	– 0·21	2 p. m.	+ 0·15	10 —	+ 0·04
8 —	– 0·12	4 —	+ 0·14	Midnight	– 0·04

The diurnal period comes out very distinctly with a maximum from noon to 4 p. m., and a minimum from 4 to 5 a. m. This is the same period as that which we have found from the *Fram*. It does not seem improbable that the resistance presented by the waves may add to the small force of convectional currents in producing the period found. Dr. JULIUS HANN remarks (*Lehrbuch der Meteorologie*, p. 390, note 7): "The nocturnal maximum of the force of the wind found at sea by ships under canvas has also been ascribed to the circumstance that the sails during the night get wet and draw better." In the night an observer is certainly often inclined to note a higher wind force with the same velocity, than during the day, the colder air being *felt* more strongly at night than the warmer air is felt during the day. Results from measured wind velocities may be considered much more reliable than results from estimated wind-forces.



It is evident that other factors besides the radiation are instrumental in modifying the range of the diurnal period of the velocity of the wind. The most prominent factors seem to be the amount of cloud and the absolute velocity of the wind.

Comparing the range (pp. 297 and 298) with a clear sky and with an overcast sky, we find that the first is less than the second in all those months in which, in the first column of the table, we have the arguments 0 and 10. In the months June to September we have no quite clear days, and the range with overcast days comes out smaller than on half-clear days. Hence the cloudiness does not seem to have any appreciably lowering influence upon the range, except in the summer months.

This indicates a difference between the nature of the summer clouds and the clouds of the other seasons. The amount of cloud (p. 518; Pl. VIII) is greatest — above 8 — in the four months, June to September, and considerably greater than in the other months. This almost holds good for the probability of precipitation (p. 528; Pl. IX) and for the number of days with rain (p. 582). The tension or quantity of aqueous vapour has its maximum in the summer months (p. 502; Pl. VI). These facts seem to indicate that the summer clouds are thicker and denser than the clouds of the other seasons. If this be true, then the clouds must intercept the radiation from the sun in the summer months in a greater proportion than at the other seasons, and thereby cause a diminished range of the diurnal period of the velocity of the wind.<sup>1</sup>

The Table on p. 302 and Pl. II, shows that the diurnal range of the velocity of the wind in all months and seasons is greater with a high velocity of the wind than with a low. The reason may be, as I have pointed out (p. 599), the increase of the force of the convectional currents caused by the greater resistance exerted by the rugged surface of the earth to the stronger winds of the day, than to those at night.

We have seen (p. 294) that the velocity of the wind is greater in cloudy weather than with a clear sky, and (p. 304) that the greater velocity of the

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<sup>1</sup> Exact observation of the amount and density of clouds is difficult in the night and dark season. The error is presumably in the direction of relatively higher figures being noted then than in the day-time. The transparency of the clouds in the dark time is probably greater than one would suppose from the amount and density noted.

wind belongs to a cyclonic state of the weather. In cyclones the ascending currents give rise to condensation of aqueous vapour and the formation of clouds. The clouds intercept the radiation from the sun and sky, and tend to lower the range of the diurnal period of the velocity of the wind; but the stronger wind that produces the clouds, gives a greater range. The latter seems to be the more powerful, except in the summer months when the clouds are thickest and densest.

The fresher and freshest winds (pp. 305 to 307, Pl. I) have a diurnal period with maximum in the day hours and minimum in the night.

Putting together the means for the seasons, we obtain the following table:

	Winter	Spring	Summer	Autumn
Diurnal range of radiation, cal. . . . .	0·014	0·436	0·651	0·125
Wind-velocity, m. p. s.	4·42	4·42	4·42	4·65
Amount of cloud. . .	3·76	6·01	8·73	6·42
Diurnal range of wind's velocity, m. p. s. . .	0·15	0·61	0·36	0·42

In winter the range of radiation is small and the sky fairly clear; the range of the velocity of the wind is small.

From winter to spring the range of the radiation increases rapidly, the amount of cloud increases, but the former prevails over the latter, and the range of the velocity of the wind increases.

From spring to summer the range of the radiation is increasing, but the increasing amount of clouds, and their thickness and density, prevail over the radiation, and the range of the velocity of the wind decreases.

From summer to autumn the range of the radiation decreases, but the wind's velocity increases, and the sky becomes clearer; the range of the velocity of the wind increases a little.

From autumn to winter the range of the radiation decreases, the wind's velocity decreases, the sky becomes clearer, and the range of the velocity of the wind decreases.

The diurnal range of the velocity of the wind generally follows the increase and decrease of the range of the radiation, except in summer, when

the clouds seem to intercept the radiation in a higher degree than in the other seasons.

The relatively small amount of the diurnal range of the velocity of the wind is perhaps an indication of the relatively small height to which the whole phenomenon reaches. Future polar expeditions, with a ship drifting like the *Fram*, could solve the question by instituting regular anemometric observations from the crow's nest.

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The Table on p. 471 and Pl. III, shows that the diurnal period of the *temperature of the air* varies greatly in the different months.

In the dark season the ordinary period is reversed, and we have the day colder than the night. We have found (p. 496) the explanation of this phenomenon by means of the thermal wind-roses, the day-winds at this season being generally colder than the night-winds.

Meanwhile the Table on p. 477 and Pl. IV, as also the Tables on p. 481 and Pl. V, show that we have the ordinary period with minimum at night and maximum near, or some hours after, noon in the winter and in the dark season, with an overcast sky and with stronger winds. With clear weather and feeble wind, the radiation from the earth has a tendency to produce an inversion of temperature (pp. 497, 498). But with an overcast sky and stronger winds, the lower and higher layers of the air are mingled together, and this brings the temperature of the lower layers to rise. The greater the amount of cloud, the less is the tendency to inversion; and the greater the velocity the wind, the more thorough is the mingling. This is the case in the day hours in a higher proportion than at night. In the winter and the dark season the cloudiness is greater (pp. 512, 513, and Pl. VII) and the wind stronger (p. 293, and Pl. I) at day than at night. On the other hand the average amount of cloud (p. 518, and Pl. VII) and the average velocity of the wind (p. 309, and Pl. I) is rather small in these seasons, and the resulting diurnal period comes out in accordance with that dependent on clear weather and weak winds.

In the months during which the sun is above the horizon, the diurnal period of the temperature of the air has the ordinary run, with minimum in

the early morning hours, and maximum some hours after noon; but the range varies greatly in the different months (p. 471). The range does not increase and decrease with the diurnal range of the radiation from the sun and sky, except from March to April and from August to September. The range rises to a maximum in April, sinks to a minimum in July, reaches a smaller maximum in August, and sinks again in September.

The main factor checking the radiation of the sun is the clouds, and in cloudy weather a stronger wind is also (p. 294) to be found. Putting together from the Tables on pp. 476 and 480 the range of temperature (R), and the amount of cloud and wind-velocity (v), we have the following Table.

	Cloud	R	Cloud	R	Diff.		Cloud	R	Cloud	R	Diff.
March	0	0°84	10	1°09	-0°25	June	4·5	2°36	10	1°08	+1°28
April	0	3·56	10	2·63	+0°93	July	4·4	0·77	10	0·74	+0°03
May	0	1·89	10	1·44	+0°45	August	4·7	0·52	10	0·85	-0°33
Mean	0	2·10	10	1·72	+0°38	Mean	4·5	1·22	10	0·89	+0°33
	v	R	v	R	Diff.		v	R	v	R	Diff.
March	3·1	1°22	6·0	2°17	-0°95	June	3·2	1°39	6·5	1°03	+0°36
April	3·0	3·52	6·0	2·16	+1°36	July	3·6	0·69	5·9	0·64	+0°05
May	3·0	2·28	6·3	1·72	+0°56	August	3·0	1·19	6·7	0·62	+0°57
Mean	3·0	2·34	6·1	2·02	+0°32	Mean	3·3	1·09	6·4	0·76	+0°33

In spring, ten degrees of increasing cloudiness lowers the range of temperature from 2°10 to 1°72 or 0°38, while in summer 5·5 degrees of cloudiness (10—4·5) lowers the range from 1°22 to 0°89 or 0°33. One degree of cloudiness lowers the range as much as 0°038 in spring and 0°060 in summer. The summer clouds seem to be thicker and denser than the spring clouds, a conclusion to which we have arrived through the discussion of the diurnal period of the velocity of the wind (p. 601).

An increase in the velocity of the wind of 3 metres per second lowers the range of the temperature as much as 0°3, both in spring and in summer. The wind brings the higher layers of the air down during the day hours (p. 603) and prevents the stagnation of the air at the surface of the earth that has been cooled during the night by radiation from this surface

(p. 599). The stronger the wind, the more does it tend to equalize the temperatures of day and night, or to lower the diurnal range.

In the following Table, I have put together the mean monthly values of (1) the diurnal range of the radiation of the sun and sky,  $r$ , (2) the amount of cloud,  $c$ , (3) the velocity of the wind in m. p. s.,  $v$ , and (4) the diurnal range of the temperature of the air,  $R$ , for the months March to September.

	1	2	3	4
	$r$	$c$	$v$	$R$
	cal.	0-10	m. p. s.	
March . . .	0·168	5·62	4·25	0°89
April . . .	0·515	4·84	4·05	3·29
May . . . .	0·625	7·57	4·97	1·69
June . . . .	0·633	8·67	4·56	1·32
July . . . .	0·639	9·06	4·40	0·69
August . .	0·681	8·45	4·31	1·07
September	0·273	9·10	4·74	0·78

The radiation varies regularly from month to month, and is nearly constant from May to August.

The amount of cloud varies considerably, and is highest from May to September.

The velocity of the wind does not vary much.

The diurnal range of the temperature shows the largest variation during the months from March to September.

From March to April the range of radiation increases rapidly. The amount of cloud decreases to a minimum, as does also the velocity of the wind; and all three factors are working to raise the diurnal range of the temperature. From April to May the range of radiation rises a little, but the amount of cloud is rapidly increasing, and also the velocity of the wind. The two last-named factors bring the range of the temperature down, notwithstanding the effect of the radiation.

From May to June the range of radiation increases very little, but the amount of cloud increases one degree, and the temperature-range is lowered by the cloudiness in spite of the increasing radiation and decreasing wind-velocity.

From June to July the same process goes on.

From July to August the range of radiation rises (the mean latitude of the Fram being relatively lowered), and the amount of cloud and the velocity of the wind decreases. The temperature-range rises, all three factors working together.

From August to September the range of radiation is going down rapidly, the amount of cloud and the velocity of the wind are increasing, and all three factors cause the range of the temperature to decrease.

We see that the maxima of the diurnal range of the temperature in both April and August, correspond with a higher range of the radiation, and minima of cloud and wind-velocity.

The low range of the temperature in summer, particularly in July, corresponds to a high degree of cloudiness during a season which has hardly one clear day.

The annual period of the temperature of the air has been discussed on pp. 484 and 597. In general it follows the annual period of the radiation from the sun and sky, with a certain amount of lag. The minimum of the temperature falls at the beginning of February, and the maximum in the middle of July, while the radiation has its minimum and maximum at the solstices.

The winter temperatures and the lowest temperatures found on the track of the Fram (pp. 483—487 and Pl. XIV and XVI) are higher than those found at the Siberian cold pole. In Siberia the low temperatures are due to calms and inversions of temperature. The soil is frozen down to a great depth<sup>1</sup>. In the circumpolar arctic sea, calms are relatively rare (p. 283), cyclonic movements are frequent (p. 581), the upper and lower layers of air are mingled together, and the cooling down of the surface of the earth or of the polar ice is checked (p. 565 and Pl. X) by the circumstance that the underlying water has a temperature of only  $-1^{\circ}6$ .

The summer temperatures along the track of the Fram reaching above  $0^{\circ}$  are due to warmer winds. The temperature of the surface of the ice cannot become higher than  $0^{\circ}$ , and the water in the open pools scarcely higher, being enclosed by ice below and around. The thermal wind-roses (p. 495) give southerly winds with a temperature of above  $0^{\circ}$  as the warmest in July and August,

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<sup>1</sup> WOEIKOF. Die Klimate der Erde. Kap. 23.

and the windward side of the wind-rose (p. 285) indicates that such southerly to south-westerly winds are most prevalent in July. The temperatures above zero are imported by the winds.

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The diurnal period of the *tension of vapour* is very distinctly developed, even in the winter and the dark season (p. 501 and Pl. VI). The range generally follows that of the temperature. It is very small in the dark season, and rises, even in spring when it is greatest, only to 0·2 mm. The period has only one maximum, after noon, as sea-board stations generally have in temperate latitudes. The diurnal ascending currents are too weak to carry the vapours upwards at a rate sufficient to produce a secondary minimum at the warmest time of the day. At night the vapours are occluded by the snowy surface.

The annual period of the tension of vapour (p. 502 and Pl. III) generally follows the corresponding period of the temperature of the air. It has its maximum in July, like that of the air; but the minimum of the tension falls in January, while that of the temperature falls later. The whole range is only 4·3 mm.

The diurnal period of the relative humidity (pp. 505 to 507, and Pl. VII) does not present any particular features. It is very inconsiderable in the winter months and the dark season, and its range rises in summer only to 2·5 per cent.

The annual period of the relative humidity has its maximum in July (p. 508, and Pl. VII) and minimum in October. Its march is not very regular. The great humidity in the summer months is most prominent.

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The diurnal period of *the amount of cloud* (pp. 512 to 513, and Pl. VII) shows a greater cloudiness in the day than in the night, in all seasons, and, with some exceptions, with strong than with feeble winds (p. 517, and Pl. VIII).

In winter there is no period with feeble winds, but a rather well-developed period with fresh winds. These winds being cyclonic (p. 304), they

are accompanied by ascensional movements of the air, causing condensation of aqueous vapours and the formation of clouds. The wind (Pl. II) being fresher in the day than in the night, there is a probability of a similar period in the amount of cloud. The winter is the season in which there is the greatest number of cyclones (p. 581). In general we find the range of the amount of cloud greater with fresh winds than with feeble winds; but in summer the reverse is the case, and in this season the diurnal range of the other elements is small with fresh winds.

The annual period of the amount of cloud is very distinctly developed with a minimum in December to January and a maximum in July to August (p. 518, and Pl. VIII). The same holds good for the number of days with an overcast sky.

The *probability of precipitation* is generally a little greater in the day than in the night (p. 527, and Pl. IX) and its diurnal period corresponds with that of the temperature, the tension of vapour, the velocity of the wind, and the amount of cloud.

The annual period of the probability of precipitation comes out very well (p. 528, and Pl. IX) with maximum in summer and minimum in winter, similar to the periods of temperature, tension of vapour, and amount of cloud. Corresponding to this, there is the annual period of the number of days with precipitation (p. 531, and Pl. IX).

The number of *hours of precipitation* in a day of precipitation (p. 534, and Pl. IX) is generally greatest in winter and least in summer. The number of observations are too small to show a regular annual period.

The probability of *fog* (p. 536, and Pl. IX) has a diurnal period in summer, which is the reverse of that of the temperature. Fog forms more easily at night than in the day.

The annual period of fog (p. 537, and Pl. IX) is very regular. No fogs in winter, and maximum of frequency in July.

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## THE SLEDGE-EXPEDITION.

During Professor NANSEN's and Lieut. (now Captain) JOHANSEN's sledge-expedition and wintering on Franz Joseph's Land in 1895—96, meteorological observations were made almost every day, comprising wind, atmospheric pressure, temperature of the air, amount and forms of cloud, and weather.

The direction of the wind was noted by compass, and its velocity estimated in metres per second. This estimation was based upon the practice which the observers had gained on board the *Fram* when using the hand anemometer mentioned on p. 3.

For the observation of atmospheric pressure the expedition had two pocket aneroids. The aneroid *Hicks* was divided into inches and the aneroid *Cary* No. 4387 into millimetres.

Before leaving the *Fram*, the aneroids were compared with the mercury-barometers on board, *Adie* No. 763 and 764. The heights of the mercury-barometers were reduced to 0°, to the standard barometer and to standard gravity. Seventeen comparisons made from the 22<sup>nd</sup> to 25<sup>th</sup> February, 1895, gave the result,

Correction for *Hicks* = — 2·0 mm.

— . *Cary* = + 5·0 .

In neither of the aneroids did the correction show any appreciable variation with pressure.

The mean error of the correction found by one comparison was  $\pm 0\cdot16$  mm. for each aneroid. The mean error of the pressure determined by the mercury barometers is about  $\pm 0\cdot05$  mm. This gives the mean error of a duly corrected reading of any of the aneroids equal to

$$\pm \sqrt{0.16^2 - 0.05^2} = \pm 0.15 \text{ mm.}$$

At the beginning of the sledge-journey in the middle of March, 1895, *Cary* read 7 mm. lower than *Hicks*. The difference between the aneroids had risen during the latter days of April to nearly 8 mm., and in the 3<sup>rd</sup> week of May to a little above 8 mm. On the 29<sup>th</sup> May, *Cary* was found to read only 2.8 mm. lower than *Hicks*, on the 30<sup>th</sup> at 7 a. m. 2.1 mm. lower, and on the same day at 7.30 p. m. *Hicks* was reading 20 mm. lower than *Cary*. The difference increased on the 1<sup>st</sup> June to 21 mm. and remained during June between 20 and 26 mm. *Hicks* was carried in the pocket and *Cary* in the kayak on the sledge. On the 30<sup>th</sup> May, Prof. NANSEN remarks "*Hicks* probably got a shock in my pocket." As seen from the above remarks, *Hicks* must evidently have commenced to alter its correction on the 29<sup>th</sup> May. *Hicks* was read simultaneously with *Cary* up to the 25<sup>th</sup> June and only 8 times subsequently, in August, October, November, January and February. The difference between the aneroids was then from 21 to 25 mm. In June and July, 1896, at Cape Flora, *Hicks* was found reading 20 mm. lower than *Cary*.

With the probable corrections for *Cary* given below, we obtain for *Hicks* the following corrections: June 1<sup>st</sup>, + 27.0 mm.; June 8<sup>th</sup>, + 27.6 mm.; June 9<sup>th</sup>, + 30.9 mm.; June 14<sup>th</sup>, + 31.7 mm.; June 17<sup>th</sup>, + 32.2 mm.; August 8<sup>th</sup> and 10<sup>th</sup>, + 29.7 mm.; October 31<sup>st</sup>, + 31.6 mm.; November 30<sup>th</sup>, + 33.3 mm.; January 7<sup>th</sup>, + 33.0 mm.; January 8<sup>th</sup>, + 32.4 mm.; and February 2<sup>nd</sup>, + 34.3 mm. In June, 1896, at Cape Flora the correction was found to be + 31.0 mm.

Up to the 27<sup>th</sup> May, 1895, only *Hicks* was read, with only a few exceptions, when both aneroids were read. After that date, the readings of *Hicks* were not considered very trustworthy, and only the readings of *Cary* were used for the determination of atmospheric pressure.

When Prof. NANSEN and his comrade had reached Mr. JACKSON'S Station at Elmwood, *Cape Flora*, Franz Joseph's Land, the two aneroids were compared there with the marine barometer Adie B. T. 655. The readings of this barometer were reduced to standard temperature, and to the standard barometer by means of the Kew-corrections given. The resulting readings in inches were converted into millimetres and reduced to standard gravity. The result of 75 comparisons from June 20<sup>th</sup> to July 10<sup>th</sup>, 1896, was,

Correction of *Hicks* = + 31.0 mm. *ME* =  $\pm$  0.38 mm.

— - *Cary* = + 9.7 mm. — =  $\pm$  0.48 mm.

In February, 1895, on board the *Fram*, *Cary's* correction was + 5.0 mm., and in June, 1896, + 9.7 mm. This gives an increase of the correction of 4.7 mm. during 15 months. The comparisons with *Hicks* during the journey and the stay at the winter-hut are incapable of giving any information as to the corrections of *Cary*. It is not probable that the change of *Cary's* correction has been uniform during the 15 months. Aneroids are most liable to change their correction when moved or shaken more or less violently, and to keep their correction unchanged when kept at rest. Starting from this consideration, I have assumed that *Cary* has had its correction increased during the arduous journey over the rugged ice, when it lay in a kayak on the sledge, and that it was unchanged, or very little changed, during the days when it was not exposed to violent motions. Such time are the resting of the expedition in the "Camp of Longing" from July 1<sup>st</sup> to 20<sup>th</sup>, 1895, and the stay at the winter-hut from August 23<sup>rd</sup>, 1895, to May 19<sup>th</sup>, 1896. The journey from the winter-hut to Cape Flora, May 19<sup>th</sup> to June 16<sup>th</sup>, 1896, was made chiefly by kayak and this mode of transportation would hardly have any appreciable influence upon the correction of the aneroid. From the beginning of the sledge-journey in March, 1895, up to the 27<sup>th</sup> May of that year, I have reckoned with a constant correction of — 2 mm. for *Hicks*, which gives a slow rising of the correction for *Cary*, amounting to one millimetre. Between May 27<sup>th</sup> and July 1<sup>st</sup> I have assumed the correction for *Cary* to be rising from + 6.2 mm. to 8 mm. From July 1<sup>st</sup> to 20<sup>th</sup>, the correction has been taken constant, + 8 mm., in the "Camp of Longing". From July 20<sup>th</sup> to August 23<sup>rd</sup>, the adopted correction is rising from + 8 mm. to 9.7 mm., and for all the rest of the journey the correction is the + 9.7 mm. found at Cape Flora. The rate of change from May 27<sup>th</sup> to July 1<sup>st</sup> is 1.64 mm. per month and from July 20<sup>th</sup> to August 23<sup>rd</sup>, 1.55 mm. per month. This is practically the same rate during the two parts of the difficult sledge-journeying.

Professor NANSEN agrees with me in this settling of the question of the corrections of the aneroids. As will be shown further on, the adopted values accord well with the atmospheric pressure found on the *Fram* and at Cape Flora.

The winter-hut lay about 7 or 8 metres above the level of the sea. The observations made from August 26<sup>th</sup>, 1895, to May 19<sup>th</sup>, 1896, at or in the hut, have been reduced to sea-level by adding 0·7 mm.

The uncertainty attaching to the corrections of the aneroids has induced me to give in an extra column the direct readings of these instruments.

For the observation of the temperature of the air the expedition had 5 thermometers. Three of these were mercury sling-thermometers, No. 14, No. 18 and No. 20, and two minimum registering thermometers, Toluol *B* and Metaxylol *C*. The zero of all the 5 thermometers had been determined in April 1893, at the Meteorological Institute in Christiania. On board the Fram the zero of No. 20 was verified in February and in April, 1894, and the two index-thermometers were compared at low temperatures,  $-30^{\circ}$  to  $-40^{\circ}$ , with the standard thermometer, Tonnelot No. 11002 (see p. 11), whose zero remained unaltered during the expedition.

The errors of the mercury sling-thermometers at low temperatures may be assumed equal to the error of zero. They were made by SØDERBERG of Stockholm, and we have seen (p. 13) that the error of SØDERBERG's psychrometer-thermometers are nearly nil between  $0^{\circ}$  and  $-30^{\circ}$ .

Toluol *B* was compared in January and February, 1894, and in January, 1895, with Tonnelot 11002, from  $-23^{\circ}$  to  $-45^{\circ}$ . The results of the two series agree very well.

Metaxylol *C* was compared with Tonnelot 11002 in January, 1894, from  $-27^{\circ}$  to  $-42^{\circ}$ .

The corrections applied to the observed temperatures are

Mercury Th.s.		Toluol <i>B</i> .		Metaxylol <i>C</i> .	
	Corr.	at	Corr.	at	Corr.
No. 14	0°0	0° to $-4^{\circ}$	0°0	0° to $-3^{\circ}$	0°0
- 18	+ 0·3	- 4 . - 18	- 0·1	- 3 . - 7	+ 0·1
- 20	- 0·2	- 18 . - 33	- 0·2	- 7 . - 12	+ 0·2
		- 33 . - 37·5	- 0·3	- 12 . - 16	+ 0·3
		- 37·5 . - 39	- 0·4	- 16 . - 21	+ 0·4
		- 39 . - 40·5	- 0·5	- 21 . - 25	+ 0·5
		- 40·5 . - 41·5	- 0·6	- 26 . - 30	+ 0·6
		- 41·5 . - 43	- 0·7	- 30 . - 35	+ 0·7
		- 43 . - 44·5	- 0·8	- 35 . - 39	+ 0·8
				- 39 . - 43	+ 0·9

In 1895 from March 15 <sup>th</sup> to	April 29 <sup>th</sup>	Toluol <i>B</i>	was used.
— — April 30 -	June 2	No. 18	— —
— — June 2 -	— 9	- 20	— —
— — — 9 -	— 28	- 14	— —
— — — 28 -	Oct. 6	Toluol <i>B</i>	— —
— — Oct. 7 -	1896, June 16	Metaxylol <i>C</i>	— —

Regarding the observations of the temperature of the air, Professor NANSEN remarks:

“During the sledge-journey from the Fram to the winter-hut, the thermometer Toluol *B* was used for all minimum-temperatures. During the night or during the time when we rested, the thermometer was generally placed on the deck of the canvas kayak, while the sun was low (during the first week), and subsequently on the surface of the ice, well protected against the direct sun-rays. During the former period the temperature was simply read off without swinging the thermometer; during the latter the temperature was taken with a sling-thermometer, and after the last mercury sling-thermometer was broken (June 28<sup>th</sup>), with Toluol *B*.

At our winter-hut, on the night of October 6<sup>th</sup>, 1895, the minimum-thermometer Toluol *B* was stolen by the foxes, and after that date the other minimum-thermometer, Metaxylol *C*, was used for all observations of temperature. The same thermometer was also used for all observations during the sledge-journey from our winter-hut to Cape Flora in the spring of 1896. As, however, it was the only thermometer we had left, I did not then run the risk of swinging it, and it was therefore only suspended in the shade.

At our winter-hut, after the sun had disappeared, the observations were taken with the minimum-thermometer, Metaxylol *C*, freely suspended in the air at a height of about 1·6 metres above the ground. The instrument was attached to one of our sledges which was raised on end, first against the wall of our hut and afterwards against a big stone in the neighbourhood. We had no lantern for the reading of the thermometer, and I tried in vain to construct one which would not burn more oil than we could afford to use. But our eyes of course became gradually trained to see in the dark, and even in mid-winter, with no moonlight, there was so much light (star-light?) reflected from the snow, that the column of the darkly-coloured metaxylol was dimly

visible, and also the figures of the thermometer-scale, but not the division-marks. By estimating the distance between the figures, the degrees could nevertheless be read off fairly well, but not the tenths of degrees. I do not therefore consider it advisable to pay too much attention to the temperature-observations during the darkest time, December and January, when the moon was not above the horizon; but as soon as she appeared, the thermometer-scale could be seen better, and with a full moon it could be read off very accurately. We had the moon above the horizon during 24 hours

in 1895 from	October 28.	to	November 12.	Full Moon	Nov. 2.
- — —	November 24.	-	December 10.	— —	Dec. 2.
- — —	December 22.	-	1896, January 6.	— —	- 31.
- 1896 —	January 18.	-	February 2.	— —	Jan. 30.
- — —	February 15.	-	March 1.	— —	Feb. 28.

On February 3<sup>rd</sup>, 1896, I discovered that the column of Metaxylol *C* had become broken, and the upper portion indicated  $-5^{\circ}8$ , while the thermometer indicated an air-temperature of  $-17^{\circ}$  after the separated portions of the column had been united (by heating the bulb with the hand and shaking). I write in my diary, that this breaking of the column had probably occurred on January 8<sup>th</sup>, 1896, when the wind had carried away the sledge, to which the thermometer was attached, for some distance, and the breaking of the column might have been caused then by the probable violent shaking of the instrument. It seems somewhat difficult to understand how it could have happened later, as the thermometer was then the whole time safely suspended.

When I discovered the accident on February 3<sup>rd</sup> there was an interval equal to  $11^{\circ}2$  between the top of the broken off metaxylol and that of the rest of the column, and this interval appeared to remain unaltered during the rise or fall of the column. If this be correct, all readings between January 8<sup>th</sup> and February 3<sup>rd</sup>, 1896, ought consequently to be reduced by a correction of  $-11^{\circ}2$ ; but it is hardly probable that the error has remained the same throughout the time, even if it actually occurred on January 8<sup>th</sup>, which is also doubtful. It is thus to be understood that the temperatures given for this period are not trustworthy." (FRIDTJOF NANSEN).

The error in the thermometer Metaxylol *C* found by Prof. NANSEN on the 3<sup>rd</sup> February, 1896, can hardly have been caused by the accident on

January 8<sup>th</sup>. The ensuing correction of  $-11^{\circ}2$  would give temperatures below  $-50^{\circ}$  in the days from January 11<sup>th</sup> to 15<sup>th</sup>. Prof. NANSEN does not think it probable that such low temperatures have occurred, and the observations from the Fram for the same days (p. 457) give temperatures of from  $-45^{\circ}$  to  $-49^{\circ}$ , whereas otherwise the Fram-temperatures are always lower than those observed at the winter-hut.

In this dilemma, I conceived that a comparison between the temperatures observed at the winter-hut and those of Cape Flora might give an indication of the time when the thermometer Metaxylol *C* had changed its correction. I wrote to Dr. W. N. SHAW, F. R. S., Secretary of the Meteorological Office, London, and asked him if it were possible to obtain copies of the temperatures observed at Mr. JACKSON'S station at Cape Flora, at 8 a. m. and 8 p. m. from January 8<sup>th</sup> to February 3<sup>rd</sup>, 1896. This application was answered in the most friendly way by Dr. SHAW, for which I am most grateful to him. Plotting the temperature-observations from the Fram, from the winter-hut, and from Cape Flora, I found that those from the Fram were lowest. The winter-hut, from January 8<sup>th</sup> to January 21<sup>st</sup>, had sometimes a lower and sometimes a higher temperature than Cape Flora. But from January 23<sup>rd</sup> to February 2<sup>nd</sup> the temperatures read off at the winter-hut were decidedly lower than those from Cape Flora, while their courses ran remarkably parallel. The mean difference was  $11^{\circ}2$  C, a figure exactly equal to the correction for Metaxylol *C* found on the 23<sup>rd</sup> February by Prof. NANSEN. With this correction, and the corrections otherwise found, the temperatures read at the winter-hut, from January 23<sup>rd</sup> to February 2<sup>nd</sup> are given in the Tables of observation.<sup>1</sup>

The amount of *Cloud* is given from the scale 0 (clear) to 10 (overcast).

The Latitude and Longitude of the stations where observations were made have been taken from the astronomical observations discussed by Professor GEELMUYDEN (Vol. II, No. 6, pp. 111 to 136), for

- (1) all those stations where such observations have been made;
- (2) for all other stations by interpolation between the astronomical stations,

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<sup>1</sup> Prof. NANSEN remarks on the 20<sup>th</sup> January, 4 p. m.: "Temperature varying, when we were out, between  $-16^{\circ}$  and  $-17^{\circ}$  and down to  $-20^{\circ}5$ . The variations were rapid. Suppose this was according as the wind came down from the mountain or not." On the 23<sup>rd</sup>, at 10 p. m.: "Temperature varying." On the 24<sup>th</sup>, at 11 p. m.: "Temperature varying between  $-6^{\circ}$  (squalls from E.) and  $-7^{\circ}8$  (calm or slatches from N.)."

guided by the notes in the *diary* of Prof. NANSEN regarding the hours of travelling and resting, and the speed of the journey each day.

The positions determined astronomically are given in degrees and minutes of an arc.

The interpolated positions are given only in degrees and tenths of a degree. In some cases it has not been possible to find out the position of the places of observation with any great accuracy; but for meteorological purposes, the given positions may be taken as sufficiently correct, considering the accuracy of the observations themselves.

The following *Table of observations* contains (1) The Year, (2) The Month, (3) The Day of the Month, (4) The Hour, (5) The Latitude N., (6) The Longitude East of Greenwich, (7) The Direction of the Wind, true, (8) The Velocity of the Wind, estimated in metres per second, (9) The Atmospheric Pressure in millimetres, at standard Gravity and Sea-Level, (10) The Temperature of the Air, Centigrade, (11) The Amount of Cloud, (12) The Forms of Cloud, (13) Remarks, including Minimum-Temperatures observed, and (14) The Readings of the Aneroids, *Hicks* in inches, *Cary* in millimetres.



## THE JOURNEY FROM THE FRAM TO THE WINTER HUT.

1 Year	2 Month	3 Day	4 Hour	5 Lat.	6 Long.	7 Wind		9 Atm. Press. mm.	10 Air- Temp. C°	11 Cloud		13 Remarks	14 Read. of Ane- roid
						Dir. true.	Vel. m. p. s.			Am.	Form.		
1895	March	16	9 a.m.	84°15'	101°06			754.3					749.0
		-	9.20 a.m.	-	-				-30.5				
		-	9 p.m.	84°03	-	E	3.5			0		Min. -37.5	
		17	8 a.m.	-	-	E	1.0	59.0	-41.0	0		Min. -43.5	29.96
		-	7.30 p.m.	-	-				-38.9				
		-	10.45 p.m.	84°05	-			61.3		0			30.1
		18	9 a.m.	-	-	E		64.0	-37.3	0		Min. -38.9	30.16
		-	10.45 p.m.	-	-			64.6	-35.3	0			30.18
		19	11 a.m.	84°06	101°07	E		66.1	-38.4			Min. -41.9	30.24
		-	9 p.m.	84°08	-	E	1.5		-39.4	0			
		20	10 a.m.	-	-	E		66.9	-40.5	0		Min. -43.2	30.27
		-	9 p.m.	84°09	-								
		21	9 a.m.	-	-	E		68.4	-42.7	0		Min. -44.8	30.33
		-	9.30 p.m.	85°01	-			66.3	-40.8				30.25
		22	8.30 a.m.	-	-			67.1					30.28
		-	10.30 a.m.	-	-	E			-40.0	0		Min. -43.4	
		-	Noon	85°11'	101°07			65.6					30.22
		-	10 p.m.	-	-	E	3.0	65.1	-40.0				30.2
		23	10 a.m.	85°02	-	E	2.0	66.3	-40.0	0		Min. -43.3	30.25
		-	10 p.m.	85°03	-	E	3.5		-41.6				
		24	11.30 a.m.	-	-	E		66.3	-40.5	0		Min. -45.8	30.25
		-	11 p.m.	85°03	-				-37.4				
		-	Mnt.	-	-			66.3					30.25
		25	Noon	-	-	E	2-3	64.5	-40.0	0		Min. -39.9	30.18
		26	5 a.m.	85°04	-			65.1	-41.6	0			30.20
		-	11 p.m.	-	-				-43.5	0			
		27	10 a.m.	85°04	-	E		68.6	-40.9	0			30.34
		28	6 a.m.	85°05	-	E		66.9	-40.5	0		Min. -42.0	30.27
		-	6 p.m.	85°05	-			62.5	-34.3				
		-	9 p.m.	-	-			62.5					30.10
		29	11 a.m.	85°33'	101°08	E		61.3	-36.8	0		Min. -38.4	30.05
		-	Mnt.	-	-				-43.5				
		30	3 a.m.	-	101°09			60.8					30.03
		-	6 p.m.	85°06	-	S	4.0	58.0	-36.3	5	Cist	Min. -43.1	29.92
		31	2 a.m.	-	102°00				-30.7				
		-	7 a.m.	-	-			56.4					29.86
		-	10 p.m.	85°07	102°01			57.4	-24.2				29.9

1 Year	2 Month	3 Day	4 Hour	5 Lat.	6 Long.	7 Wind		9 Atm. Press. mm.	10 Air- Temp. C°	11 Cloud		13 Remarks	14 Read. of Ane- roid
						Dir. true.	Vel. m. p. s.			Am.	Form.		
1895	April	1	6 p.m.	85°7	102°2	S	6-7	763.0	-22.2	*			30.12
		2	Noon	85°8	102°15'	S	4.0		-31.7	0			
		3	5 a.m.	-	-	SSE	1.0		-31.7	0			
		-	5.50 a.m.	-	-	SE	1.0	75.5					30.61
		-	Noon	85°55'	102°1				-29.6	0			
		-	Mnt.	-	102°0			79.6	-34.3	0			30.77
		4	3 p.m.	86°1	101°9	NE	4.0		-31.5	10	Cist.°		
		-	5 p.m.	-	-			74.7					30.58
		5		-	101°0			68.9	-24.2				30.35
		6	2 a.m.	-	100°5				-24.4				
		-	5 a.m.	86°2	100°0			66.6					30.26
		-	8.30 p.m.	-	99°0			65.8	-34.3			Min. -34.3	30.23
		7	2 a.m.	-	-	ESE	2.0		-35.7	0			
		-	9 a.m.	-	-	ESE			-38.4	0			
		-	Noon	-	97°0				-35.8				
		-	3 p.m.	-	96°5			65.8					30.23
		8	8.30 a.m.	-	96°0	ESE	1.5		-36.3				
		-	11 a.m.	-	96°0	ESE	1.5	72.2	-34.3	0			30.48
		9	2 a.m.	86°2	95°5	ESE	1.0		-36.3				
		-	5.30 a.m.	-	-			74.7		0			30.58
		-	8 p.m.	-	-				-31.2				
		-	Mnt.	-	-			75.2		0			30.60
		10	2 a.m.	-	94°5	SSW	0-1	74.0	-32.0				30.55
		-	8 p.m.	86°1	94°5				-28.2				
		-	10 p.m.	-	-			75.2					30.60
		11	2 p.m.	-	93°5			75.7	-27.8				30.62
		12	9 a.m.	86°0	-	SW	1-2		-27.8	0			
		-	1 p.m.	-	92°9			69.6					30.38
		13	6.30 a.m.	-	91°5	SW	2-3		-30.2	0		Min. -31.2	
		-	8 p.m.	-	-	SW	2.0	57.5	-27.9	0			29.90
		14	10 p.m.	85°9	90°9			57.5	-25.8		Cum.	Min. -29.7	29.90
		15	11 a.m.	-	-	SE			-26.4	0			
		-	4 p.m.	85°9	89°6			62.0					30.08
		16	5.30 a.m.	-	-	NE	1.0	64.8	-29.2		Cir.°		30.19
		-	10 p.m.	85°7	87°1	NE	2.5		-30.2	0			
		17	2 a.m.	-	-			64.8					30.19
		-	4.30 p.m.	-	-			63.0	-28.3			Min. -33.3	30.12
		18	Noon	85°38'	85°22'	NE	3-4	58.5	-26.2	0			29.94
		19	Noon	85°5	84°4	N	4.0	58.0	-26.2	0		Min. -32.2	29.92
		20	10 a.m.	85°4	83°7	N	3-4		-27.7	4	Cir.°		
		-	2 p.m.	-	-			58.7					29.95

1 Year	2 Month	3 Day	4 Hour	5 Lat.	6 Long.	7 Wind		9 Atm. Press. mm.	10 Air- Temp. C°	11 Cloud		13 Remarks	14 Read. of Ane- roid.
						Dir. true.	Vel. m. p. s.			Am.	Form.		
1895	April	21	6 a.m.	85°3	82°2	N	2-3	761·5	-30·2	0			30·06
		22	3 a.m.	85°2	81°0	NW	1·5		-29·1	0			
		-	7.30 a.m.	-	-			55·7					29·83
		-	Mnt.	85°0	80°0				-33·6			Min.*-31·8	
		23	6 p.m.	84°9	78°7	N	2·0		-30·5	0			
		-	11 p.m.	-	-			50·9					29·64
		24	4 p.m.	-	-	N	0·5	46·8	-30·3	0		Min. -36·3	29·48
		25	Noon	84°47'	77°3	NW	0·5		-27·2	*			
		-	5.30 p.m.	-	-			47·0					29·49
		26	10 a.m.	84°7	76°41'	NW	2-3	51·1	-31·7	10	Ci.	Min. -36·0	29·65
		27	10 a.m.	84°7	76°5	NNW	2·0		-29·1	0			
		-	2 p.m.	-	-			58·5					29·94
		28	7 a.m.	84°6	75°5	S	3·0		-29·3	0		Min. -30·0	
		-	8 a.m.	-	-			59·7					29·99
		-	10 p.m.	84°6	75°0	SE	8-9		-22·9	10	Cust.		
		29	3 a.m.	-	-			54·9	-20·5				29·80
		-	3.15 p.m.	-	-	ESE	2·5	56·9		0			29·88
		30	2 a.m.	84°6	74°5	ESE	2·0		-21·1	10	Cicu.		
		-	7 a.m.	-	-			59·8					29·99
		-	8 p.m.	84°6	74°0		0	63·7	-21·0	0		Min. -21·2	30·14
	May	1	3.30 a.m.	-	-		0		-24·5	0			
		-	9 a.m.	-	-			62·5					30·10
		-	9.30 p.m.	-	-	SSE	3·0	58·2	-16·7	10	Cust.		29·93
		2	Noon	84°6	73°2	ESE	9-10		-14·7	10*	Str.		
		-	5 p.m.	84°6	72°3			49·1					29·57
		3	6 a.m.	-	-			49·8					29·60
		-	9.30 a.m.	-	-	S	1·5	50·1	-11·0	10*	Str.		29·61
		4	7 a.m.	84°5	71°4	ESE	6·0	52·4	-17·5	7	Cu.		29·70
		5	1.30 a.m.	84°31'	70°44'	NE	2·5	57·5	-21·9	0			29·90
		-	7 p.m.	84°5	70°3	E	4·0		-17·9	0			
		-	10 p.m.	-	-			60·5					30·02
		6	3 p.m.	84°4	69°7	NE	8·0	59·0	-17·1	0		Min. -21·1	29·96
		7	9 a.m.	84°4	69°7	NE	6·0	57·0	-14·6	2	Cicu.		29·88
		8	1.40 p.m.	84°2	68°5		0	58·2	-15·2	10	Cu.		29·93
		-	5 p.m.	84°1	68°0	ENE	7·0	54·9	-12·2	*	Str.		29·80
		9	11 a.m.	84°3	67°47'	E	4·0	60·5	-13·0		Str.°	Min. -14·9	30·02
		-	9 p.m.	-	-	NE	1·5		-10·1	*			
		-	11 p.m.	84°0	67°4			60·8					30·03
		10	3 p.m.	-	-		0	63·3	-8·5	9*	Str.		30·13

\* Min.\* doubtful.

1 Year	2 Month	3 Day	4 Hour	5 Lat.	6 Long.	7 Wind		9 Atm. Press mm.	10 Air- Temp. C°	11 Cloud		13 Remarks	14 Read. of Ane- roid.
						Dir. true.	Vel. m.p.s.			Am.	Form.		
1895	May	11	9 a.m.	83°9	66°7	ESE	2·5	759·8	- 7·7		Str.		29·99
		-	12.30 p.m.	83°8	66°0			59·5					29·98
		12	12.30 a.m.	-	-			57·7					29·91
		-	1 a.m.	-	-	E	4·0		-17·2			Min. -17·8	
		-	9 p.m.	83°8	65°6	ENE	4·0	53·7	-12·2	5	Cust.		29·75
		13	2.20 p.m.	83°8	65°5	WNW	3·0	52·9	-12·7	*	Str.	Min. -14·3	29·72
		-	3.10 p.m.	-	-			52·6					29·71
		14	5.30 a.m.	83°7	65°0	WNW	4·0	55·7		9	Cu.		29·83
		-	3 p.m.	83°6	64°2	WNW	3·0	59·7	-13·7	0			29·99
		15	10.30 a.m.	83°38'	64°22'	NNW	1·0		-12·4	0			
		-	11.30 a.m.	83°6	64°3			64·3					30·17
		16	6 a.m.	83°6	64°3	NE	3·0	67·6	-15·5	10	Cist.	Min. -16·0	30·30
		-	10 p.m.	84°5	64°3	NNE	1·0	64·6	-16·7	5	Cicu.		30·18
		17	4.30 p.m.	84°6	64°3	SSE	2·0	59·7	-10·6	10	Cicu.	Min. -19·2	29·99
		-	Mnt.	-	-	NNE	6-7			8	Cicu.		
		18	4 p.m.	83°9	64°2			55·4	-10·7				29·82
		19	8 a.m.	83°5	64°0	NNE	4·0		-15·0	0			29·98
		20	1 a.m.	-	-	NNE	1·0		-13·2	10	Str.		
		-	3.30 a.m.	-	-			54·9		*			29·80
		-	4.30 p.m.	-	-			46·8		*			29·48
		-	9.30 p.m.	-	-	ENE	10·0	45·7		*			29·37
		21	12.30 a.m.	-	-	ENE	10·0	43·2					29·34
		-	4 a.m.	83°5	64°0			42·0					29·31
		-	2 p.m.	83°4	64°0	N	6·0	42·5					29·32
		-	2.30 p.m.	83°3	63°9				-10·7			Min. -13·6	
		22	8 a.m.	83°1	63°9	NNW	7·0	46·3	-12·7	8	Cicu.		29·46
		-	11.30 p.m.	83°0	63°8			50·3					29·62
		23	4 a.m.	-	-	NW	7·0	50·1	-10·9	10	Cicu.	Min. -13·3	29·61
		-	9 p.m.	82°9	63°8	NNE	6·0		- 8·9	10	Cust.		
		-	Mnt.	-	-	NNE	6·0	55·7		10	Cust.		29·83
		24	2.30 p.m.	82°9	63°52'	NNW	6·0	58·8	- 7·1	10	Ci.	Min. -11·5	29·97
		25	9.30 a.m.	82°7	64°5	NNW	4·0	60·5	- 8·2	10	Cust.		30·02
		26	4.20 a.m.	82°6	65°0	NNW	4·0	62·2	- 6·3	9	Cist.	Min. -12·3	30·07
		-	8.30 p.m.	82°5	65°3	NNW	4·0	59·2	- 5·8	9	Cist.		29·97
		27	3 p.m.	82°30'		W	8·0	58·8	- 7·7	10	Cust.	Min. - 9·6	752·6
		28	10.30 a.m.	82°5	65°6	SW	3·0		- 4·7	9	Cu.		
		-	11.30 a.m.					55·3					
		29	2.30 a.m.	82°4	65°8	SW	1·0	55·3	- 4·3	10	Str.	Min. -14·4	749·0
		-	4 p.m.	82°21'	66°1	SSW	3·0	56·1	- 3·4	10	Cust.		29·63
		30	7 a.m.	-	-	SW	2·0	54·4	- 5·4	10	Str.	Min. - 6·7	748·0
		-	7.30 p.m.	82°3	66°3	SSW	3·5	51·4	- 3·1	5	Cu.		745·0

1 Year	2 Month	3 Day	4 Hour	5 Lat.	6 Long.	7 Wind		9 Atm. Press. mm.	10 Air. Temp. C°	11 Cloud		13 Remarks	14 Read. of Ane- roid
						Dir. true.	Vel. m. p. s.			Am.	Form.		
1895	May	31	11.45 a.m.	82°3	66°3	SSW	8.0	750.4	-4.0	10	Str.	Min. -6.8	
		-	10.30 p.m.	82°3	66°3	SSW	3.0		-4.2	5	Cicu.		
	June	1	0.45 a.m.	-	-			52.6					746.1
		-	12.30 p.m.	82°3	66°3	SSW	6.0	56.0	-3.0	8	Cust.	Min. -6.5	49.5
		2	5 a.m.	-	-			61.4					54.9
		-	5 p.m.	-	-	S	5.0	59.5	-2.7	10	Cust.		52.4
		3	10.30 a.m.	-	-	SSE	4.0			*	Str.		
		-	12.30 p.m.	-	-			53.0	-1.7				46.4
		4	3.30 a.m.	82°3	66°3	N	3.5	59.1	-3.2	10	Cust.		52.5
		-	10 p.m.	-	-	W	3.0	61.8	-5.8	10	Cust.		55.1
		5	1.30 a.m.	-	-	SW	5.0	55.7	-0.3	10	Str.	Min. -6.9	49.0
		6	7 a.m.	-	-	SSW	4.0		0.0	10	Str.		
		-	9 a.m.	-	-			47.7					41.0
		-	10.30 p.m.	-	-	NW	2.0	51.6	-1.9	10	Cu.	Min.*-1.1	44.9
		7	6 p.m.	-	-	SE	3.0		-3.7	10	Cust.		
		-	8.30 p.m.	-	-			55.8					49.0
		8	9.30 a.m.	82°18'	66°20'	ESE	5.5	52.7	-3.1	10*	Cust.	Min. -3.2	45.9
		-	11.30 p.m.	82°3	65°8	E	7.0		-0.3	10*	Str.		
		9	2 a.m.	-	-			50.5					43.6
		-	3.30 p.m.	-	-	ESE	5.0	49.5	-0.7	10*	Str.	Min.*-0.2	42.6
		10	5.30 a.m.	82°3	65°2	SSE	5.0		0.0	10	Str.		
		-	6 a.m.	-	-			51.6					44.6
		-	5.30 p.m.	-	-	ESE	5.0	52.8	+0.2	9	Str.	Min.*+0.7	45.8
		11	4.30 a.m.	82°3	64°9	SE	4.0		+0.8	10	Cu.		
		-	7 a.m.	-	-			53.8					46.8
		-	8 p.m.	-	-	ESE	5.0	54.4	0.0	10	Str.	Min.*+1.3	47.4
		12	4 a.m.	82°4	64°4	ESE	6.0	55.1	-0.3	10*	Str.		48.0
		-	7 p.m.	-	-	ESE	3.0	55.4	-0.4	10	Cust.	Min.*+1.6	48.3
		13	6 a.m.	82°4	63°7	ENE	5.0		-1.8	10	Str.		
		-	8.30 a.m.	-	-			53.5					46.4
		-	11 p.m.	-	-	NW	3.0		-2.6	10	Str.		
		14	4.40 a.m.	82°4	63°2	W	2.0	49.4	-2.6	10*	Str.		42.2
		-	12.30 p.m.	82°28'	62°59'	NNW	2.0		-0.2	10*	Str.		
		-	3.30 p.m.	-	-			50.2		10*	Str.		43.0
		-	10.50 p.m.	82°4	63°1	NE	5.0	52.2	-1.5	10	Str.		45.0
		15	8 p.m.	-	-	NNE	6.0	63.2	-0.4	10	Str.	Min.*+0.4	56.0
		16	8 a.m.	82°4	63°1	NNW	4.0		-0.2	10	Cust.		
		-	9.50 a.m.	-	-			64.1					56.9
		-	Mnt.	-	-			64.4	-0.2			Min.*+3.7	57.2

1 Year	2 Month	3 Day	4 Hour	5 Lat.	6 Long.	7 Wind		9 Atm. Press. mm.	10 Air. Temp. C°	11 Cloud		13 Remarks	14 Read. of Ane- roid
						Dir. true	Vel. m. p. s.			Am.	Form.		
1895	June	17	1.30 p.m.	82°18'	63°02'	NNW	3.0		-0.7	10	Cust.		
		-	5.20 p.m.	-	-	NNW	5.0	768.7		10	Str.		761.4
		18	5 a.m.	-	-	W	9.0	64.8	0.0	10*	Str.	Min. -2.2	57.5
		-	7 p.m.	82°02'	63°02'	WNW	8.0		+0.2	10	Str.		
		-	11.30 p.m.	-	-	WNW	7.0	64.6		10	Str.		57.3
		19	11.30 p.m.	82°02'	63°03'	WNW	5.0	62.5		10	Cust.		55.1
		20	5.30 p.m.	82°02'	63°04'	WSW	3.0	60.4	+0.3	10	Cust.		53.0
		21	10.15 a.m.	82°02'	63°04'	SW	2.5		-1.0	10	Cist.		
		-	3 p.m.	-	-			50.5					43.0
		22	10.15 a.m.	82°01'	63°27'	N	6.0		-2.4	10	Ci.		43.8
		-	1 p.m.	-	-			51.4	-2.2	5	Cu.		
		-	8 p.m.	-	-	NNE	5.0		-1.0	2≡	Cu.	Rainbow.	
		-	10 p.m.	-	-	NNE	5.0	53.4	-1.5	2	Cu.		45.8
		23	Noon	82°00'	63°05'	WNW	4.0		+0.8	10*	Cist.	Min.* +2.4	
		-	3.15 p.m.	-	-			51.9					44.3
		-	11.15 p.m.	-	-	NNW	5.0	53.1	-3.0	5*	Cu.		45.5
		24	9.20 p.m.	-	-	NNW	1.5	51.2	-1.7	10≡	Str.	Min. -3.0	43.5
		25	1.45 a.m.	-	-	N	1.5	51.6	-2.6	10	Cu.		43.9
		26	9.50 a.m.	-	-	NNE	6.0	53.4	-1.3	10	Cust.	Min. -4.3	45.7
		-	5 p.m.	-	-	NNE	7.0		-0.6	10*	Str.		
		-	8 p.m.	-	-	NNE	9.0	49.0		*			41.3
		27	Noon	82°01'	63°31'	NNE	5.0	51.5	-0.3	10	Str.	(Min. -1.0) { icy rain }	43.7
		-	7 p.m.	-	-	NNE	6.0		-0.1	10	Str.		
		-	11 p.m.	-	-	NNE	7.0	51.7		10	Str.		43.9
		28	10.45 a.m.	82°00'	63°05'	N	6.0	50.1	+0.1	10	Str.	Min. -1.0	42.3
		-	7 p.m.	-	-	N	6.5	48.8	+0.5	10	Str.	icy rain	41.0
		29	Noon	-	-	N	2.0	47.4	+1.1	10≡	Str.	Min. +0.5	39.5
		-	10 p.m.	-	-		0	49.9	+0.5	10	Cu.		42.0
		30	3 p.m.	82°01'	63°05'	ESE	1.0	54.8	+1.2	8	Cu. Cieu.		46.9
		-	8 p.m.	-	-	N	1.0		-0.6	10	Str.		
	July	1	2 a.m.	82°06'	63°31'		0	53.5		10*	Str.		45.5
		-	2.20 p.m.	-	-	S	4.0	55.0	+0.5	3	Cu.	Min. -1.0	47.0
		-	10 p.m.	-	-	S	3.0	56.5	-0.2	9	Cust.		48.5
		2	12.30 p.m.	-	-	SSE	5.0	59.1	+1.9	6	Cieu.	Min. -0.4	51.1
		-	8.30 p.m.	-	-	SE	4.0		+0.2	10	Str.		
		-	9.45 p.m.	-	-			56.9					48.9
		3	2 p.m.	-	-	WNW	5.5	56.0	+0.5	10	Cust.	Min. -0.5	48.0
		-	11 p.m.	-	-	W	4.5		-0.8	5	Cu.		
		-	Mnt.	-	-			58.3					50.3

1 Year	2 Month	3 Day	4 Hour	5 Lat.	6 Long.	7 Wind		9 Atm. Press. mm.	10 Air- Temp. C°	11 Cloud		13 Remarks	14 Read. of Aner- oid.
						Dir. true.	Vel. m. p. s.			Am.	Form.		
1895	July	4	2.50 p.m.	82°6	63°31'	SW	3.5	762.2	+ 1.8	10	Cust.	Min. -1.6	754.2
		-	11 p.m.	-	-	WSW	2.0		+ 0.3	9	Cust.		
		5	2 a.m.	82°1	63°4	WSW	1.5	63.7		10	Cust.		55.7
		-	2 p.m.	-	-	SE	4.0	59.1	+ 0.8	9	Cust.	Min. +0.3	53.1
		-	9.30 p.m.	-	-	ESE	6.0		- 0.3	10 *	Str.		
		-	10 p.m.	-	-			56.2					48.2
		6	4 p.m.	-	-	ESE	1.0	49.9	+ 1.0	10 ☉	Str.	Min. -0.8	41.9
		7	9.30 a.m.	-	-	NNW	3.0		- 0.4	9	Cicu.		
		-	1 p.m.	-	-			56.4					48.4
		8	4 a.m.	-	-	WSW	3.0	57.5	- 1.3	8	Cu.	Min.* -0.5	49.5
		-	3 p.m.	-	-	WSW	3.0		0.0	10	Cicu.		
		9	7.30 p.m.	-	-	WNW	5-6	59.9	+ 0.8	10	Str.	Min. -0.2	51.9
		10	10.45 a.m.	82°1	63°3	WNW	1.0	63.5	+ 0.7	0		{Min.* -0.6} {mist hor.}	55.5
		11	5 a.m.	-	-	SSW	1.0	62.5	- 0.7	10 ☉	Str.	Min. -1.2	54.5
		-	4 p.m.	-	-	NW	2.0		+ 1.1	10	Str.		
		-	5 p.m.	-	-			61.8					53.8
		12	12.20 p.m.	-	-	N	2.0	60.6	+ 0.8	7	Cicu.	Min. +0.8	52.6
		13	1.15 a.m.	-	-	NNE	2.0	57.6	- 1.3	6 ≡	Ci.		49.6
		-	Mnt.	-	-			56.0	+ 0.5	10 ≡	Str.	Min. -1.3	48.0
		14	1 p.m.	-	-			54.3	+ 0.8	0		mist horiz.	46.3
		15	9.30 a.m.	-	-	WNW	3.0	51.5	- 0.2	9	Cu.	Min. -1.0	43.5
		-	9 p.m.	-	63°2	WNW	2.0	51.0	- 1.0	10	Str.		43.0
		16	Noon	-	-	NW	1.0	49.9	+ 1.0	10	Cust.	Min. -1.0	41.9
		-	10.30 p.m.	-	-	ENE	1.0		- 0.7	10 *	Cust.		
		17	2.30 p.m.	-	-	NNE	2.0	55.2	- 0.5	10	Str.	Min. -1.2	47.2
		18	2.30 a.m.	-	-	NNE	1.0		0.0	10 *	Str.		
		-	3.30 a.m.	-	-			54.9					46.9
		-	9 p.m.	-	-			57.0	+ 0.1	10 ≡	Str.		49.0
		19	2 p.m.	-	-	NNE	1.0	59.0	+ 1.0	10	Str.		51.0
		20	11.30 a.m.	82°7'	63°1	NNE	3.0	58.7	+ 1.8	2	Ci.	Min. -0.3	50.7
		21	6.30 a.m.	-	-	NNE	4.0	57.8	- 1.2	10	Str.		49.8
		22	2 a.m.	82°1	63°3	NNE	3.0		+ 0.3	10 ≡ ☉	Str.	Min. -1.2	
		-	4 a.m.	-	-			56.8		10	Cust.		48.7
		-	6.30 p.m.	82°1	63°5	NNE	5.0	53.1					45.0
		23	9 a.m.	-	-	NNW	3.5	53.6	+ 0.4	10	Str.		45.5
		-	8 p.m.	82°0	63°7	WNW	2.0		+ 0.8	9	Cust.		
		-	9.45 p.m.	-	-			56.6					48.5
		24	0.30 a.m.	-	-	WNW	1.0	57.9	0.0	10 ≡	Str.	Min. -1.7	49.8
		-	11 p.m.	-	-			58.1		10 ≡	Str.		50.0
		25	1 a.m.	-	-	WSW	1.0	58.0	+ 1.2	10	Cu.	Min. -0.8	49.8
		-	11.30 p.m.	81°9	63°5		0	53.5	+ 0.8	7	Cicu.		45.3

1 Year	2 Month	3 Day	4 Hour	5 Lat.	6 Long.	7 Wind		9 Atm. Press. mm.	10 Air- Temp. C°	11 Cloud		13 Remarks	14 Read. of Ane- roid
						Dir. true.	Vel. m.p.s.			Am.	Form.		
1895	July	26	3 p.m.	81°9	63°5	SSW	1·0	751·2	+ 2·1	10	Cicu.	Min. +0·8	743·0
		-	Mnt.	81°8	63°8	WSW	5·0	50·2	+ 0·3	10*	Str.		42·0
		27	2.20 p.m.	-	-	SSW	3·0	52·5	- 0·1	10	Cu.		45·2
		28	2 a.m.	81°8	64°0	WSW	2·0	51·7	- 0·4	10	Str.		43·3
		-	4.50 p.m.	-	-	SSW	2·0	51·1	+ 1·6	6	Cicu.	Min. -0·6	42·7
		29	4 a.m.	81°8	64°1	NNE	4·0	45·2	+ 0·3	10●	Str.		36·8
		30	5.30 a.m.	81°7	64°7	WSW	6·0	31·9	- 0·9	10	Str.	Min.*-0·5	23·5
		-	8.45 p.m.	81°7	64°9	SSW	4·0	46·6	- 0·4	10	Cust.		38·2
		31	1 p.m.	-	-	SSW	5·0	55·3	+ 0·8	10*	Cust.	Min. -1·3	46·8
	August	1	1.30 a.m.	81°7	65°5	SSW	5-6	59·3	- 0·5	5	Cicu.		50·8
		-	3.30 p.m.	-	-	SSW	4·0	64·9	+ 1·7	3	Cicu.		56·4
		2	3 a.m.	81°35'	65°39'	SSE	5·0	65·4	- 0·8	0			56·9
		-	5 p.m.	-	-	SE	6·0	66·2	+ 0·6	5	Cicu.	Min. -1·9	57·7
		3	4 a.m.	-	-	SE	4·0	65·6	- 1·3	5	Ci.		57·0
		-	5 p.m.	81°7	64°0	SE	6·0	65·0	+ 1·5	2	Ci.	Min. +1·4	56·4
		4	4.30 a.m.	-	-	ESE	5·0	62·4	+ 0·3	8	Cu.		53·8
		-	6 p.m.	81°7	63°6	SSE	2·0	62·8	0·0	10	Cust.	Min.*+0·3	54·2
		5	7 a.m.	-	-		0	65·5	+ 0·3		Cu.		56·9
		-	9.30 p.m.	85°7	63°3	NNW	1-2	67·4	+ 0·3	10	Cust.	Min. +0·3	58·7
		6	2 p.m.	81°7	63°1		0	68·3	0·0				59·6
		7	5.45 a.m.	81°7	62°7	NNW	3-4	66·7	+ 0·6	10≡	Str.	Min. -0·2	57·9
		-	7 p.m.	81°7	62°5		0	66·6	+ 0·3	10●	Str.		57·8
		8	8 a.m.	-	-	NNW	2·0	65·0	+ 0·1	10	Cust.	Min. -0·7	56·1
		-	10 p.m.	81°7	62°0	NNW	3-4	65·4	- 1·4	10	Cust.		56·5
		9	10.45 a.m.	81°6	61°9	NNW	5·0	64·9	- 0·6	10≡	Str.	Min. -2·5	56·0
		-	10 p.m.	81°34'	61°47'	NNE	3·0	67·5	- 2·6	9	Cust.		58·6
		10	11.15 a.m.	81°30'	61°5	NNW	1·0	67·4	- 3·6	*°		Min. -3·7	58·4
		-	Mnt.	81°5	61°3		0	67·0	- 5·3	≡°			58·2
		11	Noon	81°5	60°9		0	68·0	- 3·4	≡		Min. -7·2	59·0
		12	5 a.m.	81°5	60°6	ESE	2·0		- 3·2	7	Cicu.		
		-	2 p.m.	81°5	60°3	ESE	3·0	69·6	- 1·8	8	Cicu.	Min. -3·2	60·5
		-	9.30 p.m.	81°5	59°6	ESE	4·0	69·4	- 4·0	6	Cicu.		60·8
		13	11 a.m.	-	-	SE	2·0	71·2	- 1·5	8	Cu.	Min. -6·1	62·1
		-	Mnt.	81°5	59°0		0	73·0	- 5·4	3	Cu.		63·9
		14	1 p.m.	81°5	58°4	NNW	1·5	73·5	- 0·8	9	Cicu.	Min. -6·4	64·4
		15	2 p.m.	81°5	58°2	ESE	2·0	71·1	- 2·3	10≡	Str.		61·9
		16	11.30 a.m.	81°6	58°0		0	67·2	- 1·6	9	Cicu.	Min. -3·0	58·0
		17	10 a.m.	81°5	56°6	NNE	2·0	62·8	- 1·0	10	Cu.		53·5
		-	10.30 p.m.	-	-		0	58·8	- 1·8	10	Cu.	Min.*-1·5	49·5



1 Year	2 Month	3 Day	4 Hour	5 Lat.	6 Long.	7 Wind		9 Atm. Press. mm.	10 Air- Temp. C°	11 Cloud		13 Remarks	14 Read. of Ane- roid.
						Dir. true	Vel. m. p. s.			Am.	Form.		
1895	August	18	7.50 p.m.	81°5	56°8	SW	6.0		- 0.4	10	Str.		
		-	9.15 p.m.	-	-	SW	6.0	51.6		10	Str.		742.7
		19	10 a.m.	81°27'	57°8	SW	6.0	50.4	- 0.9	10*	Cust.	Min. -1.8	41.0
		-	8 p.m.	-	-	WSW	5.0	52.4	- 0.6	10	Cust.		43.0
		20	4 p.m.	-	-	WSW	7-8	53.0	- 2.1	8	Cu.	Min.*-1.5	43.5
		21	5 a.m.	-	-	SW	7.0	52.5	- 3.5	10	Str.		43.0
		22	5.30 p.m.	81°5	56°5	W	7.0	54.1	- 5.3	10	Cust.	Min. -5.7	44.5
		23	9 p.m.	81°5	56°1	SW	6.0	53.6	- 6.4	8	Cust.	Min. -6.9	43.9
		24	5 p.m.	81°5	55°8	ENE	6.0	55.7	- 1.5	10*	Str.		46.0
		25	5.30 a.m.	81°3	55°0	E	12.0	51.2	0.0	10	Cu.		41.5
		26	8 a.m.	81°2	54°7	ENE	6.0	50.7		10*	Str.		41.0
		27	Noon	81°2	55°0	S	5.0	54.4		10*	Cust.		44.0
		28	2 p.m.	81°13'	55°20'	SSW	6.0		- 1.0	5	Cicu.		
		-	4 p.m.	-	-			53.1					42.7

## OBSERVATIONS AT THE WINTER HUT.

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	9 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true	Vel. m. p. s.			Am.	Form.		
1895	August	29	5.45 a.m.		0	751.7	- 2.3	10	Cust.		741.3
		30	9 p.m.	ESE	12.0		- 2.4	10	Cust.	Min. -3.0	
		-	Mnt.			52.9					42.5
		31	6.30 p.m.	SE	8-10		- 3.5	5	Cu.		
		-	9.30 p.m.			47.9					37.5
	Sept.	2	10.30 a.m.	ESE	6-7	56.2	- 1.5	9	Cicu.	Min. -3.2	48.7
		3	3 a.m.	ESE	6-7		- 1.4	10	Cust.	Min. -1.7	
		-	6.30 a.m.			53.2					42.8
		-	11.30 p.m.	WSW	3.0	56.4	- 2.4	4	Cu.		46.0
		4	11 p.m.	ESE	6.0		- 2.9	3	Ci.	Min. -3.5	

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	10 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1895	Sept.	5	4 a.m.			751.9					741.5
		-	6 p.m.	NNE	5.0	53.3	- 2.8	5	Cu.	Min. - 3.4	42.9
		6	8.30 a.m.	NE	3.0		- 2.0	10	Cust.		
		-	11.30 a.m.			48.4					38.0
		7	9.30 a.m.		0	61.4	- 8.3	3	Ci.	Min. - 10.3	51.0
			10 p.m.		0	61.9	- 7.1	5	Ci.		51.5
		8	11 a.m.	SSE	5.0	61.7	- 3.3	10	Cust.	Min. - 9.7	51.3
		-	10 p.m.	SSE	6.0		- 1.0	10	Cust.		
		-	Mnt.			58.6					48.2
		9	11.45 a.m.		0	58.7	+ 0.6	10 ≡	Str.		48.3
		10	2 a.m.			59.4					49.0
		-	1 p.m.	SSE	4.0	59.4	- 0.3	10	Cicu.	Min. - 1.8	49.0
		-	9 p.m.	SSE	4.0	59.4	- 0.6	10	Cu.		49.0
		11	Noon	SSE	3-4	59.5	+ 0.3	10	Cu.	Min. - 2.2	49.1
		-	8.30 p.m.	SSE	5.0	56.9	+ 3.0	10	Cust.		46.5
		12	Noon	SSE	7.0	51.6	+ 4.8	7	Cicu.		41.2
		-	7.30 p.m.	SSE	6.0		+ 2.3	10 ☉	Cist.		
		-	10 p.m.			47.2					36.8
		13	11.30 a.m.	WNW	4.0	49.2	- 4.6	10 *	Str.		38.8
		-	8 p.m.	WNW	3.0		- 6.6	10 *	Str.		
		-	11 p.m.			51.9					41.5
		14	Noon	WNW	7.0	56.9	- 7.4	10	Str.	Min.* - 7.1	46.5
		-	9 p.m.	WNW	1.0		- 6.1	10	Cust.		
		-	11.30 p.m.			57.4					47.0
		15	Noon	SSE	5.0	52.9	- 1.6	10	Cust.	Min. - 6.8	42.5
		-	9 p.m.	SSE	2.0		- 1.5	10 *	Str.		
		-	11.30 p.m.			46.9					36.5
		16	11.30 a.m.	WNW	6.0	46.6	- 5.2	10 *	Str.	Min.* - 4.1	36.2
		-	9.45 p.m.	WNW	3.0		- 11.5	1	Ci.		
		-	11.30 p.m.			47.4					37.0
		17	1.30 p.m.	E	4.0	34.2	- 0.5	10 *	Str.	Min. - 12.9	23.8
		-	9.30 p.m.	WNW	7.0		- 9.4	9	Cust.		
		-	Mnt.			41.4					31.0
		18	2.30 p.m.		0	51.9	- 10.9			Min. - 13.5	41.5
		-	8 p.m.				- 13.5	2	Ci.		
		-	10 p.m.			52.4					42.0
		19	Noon	WNW	2.0	53.4	- 12.3	3	Ci.	Min. - 17.0	43.0
		-	8 p.m.		0		- 12.4	3	Ci.	frosty fog.	
		-	11 p.m.			51.4					41.0
		20	1 p.m.	NE	6.0	51.4	- 6.6	10	Cu.	Min. - 15.3	41.0
		-	9 p.m.	NE	3.0		- 7.9	9	Cu.		

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	9 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1895	Sept.	20	11 p.m.			751.9					741.5
		21	Noon	NNE	10.0	53.4	-11.1	5	Ci.	Min. -12.3	43.0
		-	4 p.m.	NNE	10.0		-9.8	3	Ci.		
		-	5 p.m.			56.9		1	Cu.		46.5
		22	11 a.m.		0	55.4	-11.4	1	Cu.	Min. -14.1	45.0
		-	6.30 p.m.	ENE	3.0		-11.3	3	Cu.		
		-	9.30 p.m.			54.9	-11.7			Min. -13.4	44.5
		23	12.30 a.m.	SSE	2.0		-9.1	10 *	Str.		
		-	9 p.m.	ENE	4.0			10	Cust.		
		-	Mnt.			54.4					44.0
		24	6 p.m.		0	57.2	-14.1	4	Cicu.	Min. -15.2	46.8
		-	11 p.m.		0		-16.6	10	Cust.		
		-	Mnt.			61.9					51.5
		25	12.30 p.m.	SSE	4.0	52.5	-16.9	1	Cu.	Min. -20.2	42.1
		-	8 p.m.	SSE	2.0		-18.5	2	Cu.		
		-	Mnt.			63.4					53.0
		26	12.30 p.m.	SSE	1.0	61.6	-16.1	1	Ci.	Min. -20.2	51.2
		-	11 p.m.	SSE	2.0		-18.2	0		Min. -18.4	49.5
		27	2 a.m.			59.9	-7.6				48.1
		-	12.30 p.m.	SE	5.0	58.5		10	Cust.		
		-	8.30 p.m.	SE	5.0		-9.5	10	Cust.		
		-	11 p.m.			56.8					46.5
		28	2 p.m.	SE	6.0	54.4	-6.3	10	Cust.	Min. -11.6	44.0
		29	10.30 a.m.	SE	3.0	51.4	-6.1	10	Cust.		41.0
		30	5 p.m.	SE	4.0		-8.1	8	Ci.	Min. -11.1	
		-	Noon	ESE	3.0	53.9	-11.6	0			43.5
	October	2	Noon		0	52.4	-11.6	10 *	Cust.		42.0
		-	8 p.m.	NNE	10.0		-17.5	10 *	Str.		
		-	Mnt.			52.9					42.5
		3	3 p.m.	NNE	4.0		-21.5	10	Cust.	Min. -22.9	
		-	8 p.m.		0		-22.7	8	Cicu.		
		4	4 a.m.			59.9					49.5
		-	5 p.m.	NNE	2.0	63.9	-22.2	3	Cust.	Min. -25.2	53.5
		-	Mnt.			69.4					59.0
		5	3 p.m.	NNE	1.0	63.4	-17.6	≡		Min. -22.5	53.0
		-	8 p.m.			63.9					53.5
		6	7 p.m.	NNE	2.0	70.4	-16.6	1	Cu.		60.0
		7	4 p.m.	WNW	6.0	67.7		10 *	Str.		57.3
		-	7 p.m.	WNW	3.0		-13.0	10	Str.		
		-	9.30 p.m.			69.4					59.0

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C °	9 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1895	October	8	3 p.m.	SSE	3.0	769.4		10	Cust.		759.0
		-	9 p.m.	SSE	3.0		-13.5	4	Cust.		
		9	1 p.m.	E	4.0		-17.4	2	Cu.		
		-	8.30 p.m.	ESE			-23.5	1	Cust.		
		10	5 a.m.			65.4					55.0
		-	5 p.m.	E	4.0	66.4	-20.1	9	Cust.		56.0
		-	Mnt.			66.4					56.0
		11	2 p.m.	ESE	10.0		-24.3	0			
		-	7 p.m.	ESE	12.0		-21.5	0			
		-	Mnt.			50.9					40.5
		12	6 p.m.	ESE	12.0		-21.5	10	Cu.		
		13	6 a.m.	ESE	12.0	58.9					48.5
		-	Mnt.	ESE	12.0	58.6		10	Cust.		48.2
		14	Noon	ESE	8.0	59.4	-18.6	2	Cu.		49.0
		-	5.30 p.m.	ESE	6.0		-20.3	3	Cu.		
		-	10 p.m.			60.4					50.0
		15	1 p.m.	ESE	6.0	60.2	-21.2	0			49.8
		-	Mnt.			60.9					50.5
		16	1.30 p.m.	ESE	6.0	61.4	-22.5	6	Cu.		51.0
		-	Mnt.			59.9					49.5
		17	6 p.m.	ENE	6.0	58.9	-19.6	10	Cust.		48.5
		-	9 p.m.			58.6					48.2
		18	10 a.m.	ESE	10.0	57.3	-19.6	10	Cust.		46.9
		-	10 p.m.	ESE	10.0	56.4					46.0
		19	Noon	ESE	10.0	57.4	-14.7	10	Cust.		47.0
		20	4 a.m.			59.4					49.0
		-	6 p.m.	ENE	6.0	61.7	-19.6	4	Cu.		51.3
		-	11 p.m.			61.5					51.1
		21	10 a.m.	NNE	4.0		-19.0	3	Cu.		
		-	10 p.m.	NNE	4.0	62.2		0		W in SE	51.8
		22	10 a.m.	NNE	5.0	61.4	-15.9	10	Str.		51.0
		-	8.30 p.m.	NNE	8.0	59.4		10*	Str.		49.0
		23	9 a.m.	NNE	4.0		-17.4	10	Str.		
		-	1 p.m.	NNE	4.0	62.4	-16.0	10	Cust.		52.0
		-	5 p.m.	NNE	4.0		-15.7	2	Cu.		
		-	11 p.m.	NNE	4.0	65.9		0			55.5
		24	9 a.m.	NNE	5.0	67.4	-21.3	8	Cu.		57.0
		-	2 p.m.	NNE	5.0		-19.6	5	Cu.		
		-	6 p.m.	WNW	5.0	69.2		4	Cu.		58.8
		25	Noon	NNE	6.0	72.4	-16.8	10	Str.		62.0
		-	10 p.m.	NNE	6.0	75.9		0		W in S	65.5

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	9 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1895	October	26	10 a.m.	ENE	5.0	777.4	-18.0	1	Cu.		767.0
		-	5 p.m.	ENE	5.0		-21.0	0			
		-	9 p.m.			76.9					66.5
		27	9 a.m.	ESE	5.0	77.4	-15.7	1	Cu.		67.0
		-	3.30 p.m.	ESE	6.0	76.4	-14.7	10	Cu.		66.0
		-	8.30 p.m.	ESE	6.0	67.7					57.3
		28	Noon	ESE	3.0	71.9	-12.7	10	Str.		61.5
		-	5 p.m.	ESE	3.0		-13.2	10 *	Str.		
		-	10 p.m.			66.4					56.0
		29	11 a.m.	WSW	6.0		-15.3	6	Cu.		
		-	Mnt.			62.9				W in S	52.5
		30	4 p.m.	NW	8.0		-19.6				
		-	8.30 p.m.	NW	8.0	49.4		10	Cust.		39.0
		31	7 a.m.			51.4		10	Cust.		41.0
		-	8.30 a.m.	NW	4.0	51.5	-20.6				41.1
		-	Noon	NW	4.0	50.4	-19.9	10	Cust.		40.0
		-	1 p.m.	NW	4.0	49.4	-19.4	10	Cust.		39.0
		-	9 p.m.	NW	2.0	51.2		5	Cu.	W	40.8
	Nov.	1	1 p.m.			46.9					36.5
		-	6 p.m.	SSE	5.0	45.7	-16.6	4	Ci.		35.3
		-	10 p.m.			46.2					35.8
		2	7 a.m.			48.9					38.5
		-	Noon		0	54.4	-20.6	3	Cicu.		44.0
		-	3 p.m.	ESE	1.0	51.4	-21.8	4	Cicu.		41.0
		-	Mnt.			52.1					41.7
		3	? p.m.			46.9					36.5
		-	? p.m.	SE	12.0	49.2	-16.1	10 *	Str.		38.8
		-	? p.m.			49.4					39.0
		4	8 a.m.	ESE	3.0	50.9	-20.8	10	Str.		40.5
		-	1 p.m.	ESE	3.0		-20.0	10	Str.		
		-	2.30 p.m.	ESE	3.0		-20.1	10	Str.		
		-	Mnt.			48.9					38.5
		5	10 a.m.		0	47.1		8	Str.		36.7
		-	2 p.m.	NNE	4.0	46.9	-21.0	7	Cust.		36.5
		-	6 p.m.	NNE	3.0	46.4	-22.0	8	Ci.		36.0
		6	3 p.m.	NNE	12.0	43.9	-24.0	10 *	Str.		33.5
		-	Mnt.	NNE	8.0	44.9					34.5
		7	9 a.m.	NNE	8.0	46.4	-27.9	3	Cu.		36.0
		-	2 p.m.	NNE	6.0		-26.0	5	Cust.		
		-	5 p.m.	NNE	6.0		-26.0	5	Cust.		

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	10 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1895	Nov.	7	6 p.m.			746.4					736.0
		-	Mnt.			46.9					36.5
		8	2 p.m.	NNE	2.0	49.4	-28.4	3	Cust.		39.0
		-	3.30 p.m.			49.9		5	Cust.		39.5
		9	4 a.m.	NNE	6.0	55.4	-29.4	0			45.0
		-	2.30 p.m.	NNE	6.0	60.9	-26.4	9	Cust.		50.5
		-	9 p.m.	ENE	3.0	61.9	-27.4	0			51.5
		10	1 p.m.	ESE	4.0	66.6	-23.5	0			56.2
		-	3 p.m.	ESE	5.0	66.2	-23.8				55.8
		-	8 p.m.			66.4					56.0
		11	Noon	SSE	10.0	62.2	-17.4	10	Cust.		51.8
		-	1 p.m.	SSE	8.0	61.4	-15.2	10	Cust.		51.0
		-	8 p.m.	SSE	6.0	60.9		10	Cust.		50.5
		-	Mnt.			60.4					50.0
		12	10 a.m.	SSE	4.0	60.9	-11.7	10	Str.		50.5
		-	2 p.m.	SSE	4.0	60.9	-14.7	1	Cu.		50.5
		-	4 p.m.	SSE	4.0	60.9	-14.7	1	Cu.		50.5
		-	10 p.m.			60.6					50.2
		13	1.30 p.m.	SSE	7.0	58.2	-16.3	1	Cu.	☼ in zenith	47.8
		-	9.30 p.m.	SSE	6.0	55.4	-14.7	0		☼ in S	45.0
		14	1 p.m.	SSE	5.0	50.4	-19.6	1	Cu.		40.0
		-	Mnt.			49.4					39.0
		15	2.30 p.m.	ESE	4.0	50.4	-25.5	0		☼	40.0
		-	10 p.m.			50.4					40.0
		16	1 p.m.	WNW	6.0	48.4	-25.5	10 *	Str.		38.0
		-	10 p.m.			48.7					38.3
		17	2 p.m.	NNW	5.0	50.7	-22.5	10 *°	Str.		40.3
		-	10 p.m.			49.4					39.0
		18	1 p.m.		0	47.4	-22.5	10	Str.		37.0
		19	6 a.m.		0	51.4					41.0
		-	9 p.m.	WNW	7.0	45.4	-24.5	10 *	Str.		35.0
		20	3 p.m.	NW	10.0	51.4	-31.3	3 *	Str.		41.0
		-	11.30 p.m.			60.4					50.0
		21	10 a.m.	NNW	4.0	62.4	-33.3	0			52.0
		-	4 p.m.	NNW	4.0	63.6	-34.3	0		☼ in W	53.2
		-	10 p.m.			65.6					55.2
		22	1 p.m.	NNW	3.0	66.4	-35.2	0			56.0
		23	2 a.m.			68.4					58.0
		-	8 p.m.	ENE	5.0	62.9	-36.2	0		☼ in S	52.5
		24	Noon	ENE	6.0	63.9	-28.9	5	Str.		53.5
		-	1 p.m.	ENE	8.0		-28.9	1	Str.		

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	10 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1895	Nov.	24	3 p.m.			764.9					754.5
		-	6.30 p.m.			66.4					56.0
		25	1 p.m.	ESE	1.0	67.4	-29.4	2	Cu.		57.0
		-	3 p.m.		0	67.9	-29.4	3	Cu.		57.5
		-	8 p.m.			68.9					58.5
		26	2 p.m.	NNW	3.0	71.7	-24.5	3	Cu.		61.3
		-	7 p.m.			71.4					61.0
		27	2 p.m.	WSW	8.0	51.4	-22.5	10 *	Str.		41.0
		-	5.30 p.m.	WSW	9.0	48.4		10	Str.		38.0
		-	9 p.m.	WSW	10.0	47.9		10	Str.		37.5
		28	9 a.m.			43.4					33.0
		-	2 p.m.	N	5.0	41.4	-21.5	10 *	Str.		31.0
		-	5 p.m.	N	5.0	40.9	-23.0	5	Ci.		30.5
		-	11 p.m.			39.9					29.5
		29	8 a.m.			38.4					28.0
		-	4 p.m.	ENE	3.0	37.4	-22.0	10 *	Str.		27.0
		-	6 p.m.	ENE	4.0	37.4	-22.0	10 *	Str.		27.0
		-	8 p.m.			37.4					27.0
		30	3 a.m.			40.9					30.5
		-	9 a.m.			43.4					33.0
		-	5 p.m.		0	46.2	-32.8	0			35.8
		-	11 p.m.			50.4					40.0
	Dec.	1	9 a.m.			53.4					43.0
		-	4 p.m.		0	56.4	-32.8	0			46.0
		-	6 p.m.		0	56.9	-32.8	0			46.5
		-	10 p.m.			57.9					47.5
		2	11 a.m.			57.4					47.0
		-	4 p.m.	ESE	5.0	55.4	-21.5	10	Str.		45.0
		-	6 p.m.	ESE	5.0		-21.0	10	Str.		
		-	11 p.m.			49.4					39.0
		3	5 a.m.	ESE	8.0			0			
		-	3 p.m.	ESE	4.0	60.4	-18.1	0 m			50.0
		-	5.30 p.m.	ESE	3.0	61.4	-18.6	0 m			51.0
		-	10 p.m.			62.9					52.5
		4	5 p.m.	SSE	7.0	46.4		10 *	Str.		36.0
		-	8 p.m.	SSE	7.0	45.4	-21.0	5	Str.		35.0
		-	10 p.m.			45.4					35.0
		5	8 a.m.			42.4					32.0
		-	8 p.m.	SSE	10.0	42.1	-18.6	10 * <sup>2</sup>	Str.		31.7
		-	Mnt.			41.9					31.5

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press.	8 Air- Temp.	9 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.	mm.	C°	Am.	Form.		
1895	Dec.	6	8 a.m.			744.4					734.0
		-	2 p.m.	ESE	4.0	46.4	-18.6	10 *	Str.		36.0
		-	4 p.m.	ESE	5.0	47.4	-18.6	10 *	Str.		37.0
		-	5 p.m.			51.4					41.0
		7	8 a.m.			56.4					46.0
		-	6 p.m.	ENE	5.0	58.9	-23.5	10	Str.		48.5
		-	11 p.m.	ENE	3.0	60.9	-24.5	0			50.5
		8	10 p.m.	ENE	7.0	60.4	-27.4	5	Str.		50.0
		9	2 p.m.			51.4					41.0
		-	4 p.m.			50.4					40.0
		-	10 p.m.	ESE	15.0	46.4	-17.6	10 *°	Str.		36.0
		10	1 a.m.	ESE	16.0	42.4		10	Str.		32.0
		-	5 a.m.			41.4					31.0
		-	1 p.m.			40.7					30.3
		-	Mnt.	ENE	6.0	40.6	-11.8	5 *	Str.		30.2
		11	10 a.m.			43.4					33.0
		-	3 p.m.			44.4					34.0
		-	6 p.m.			44.9					34.5
		-	Mnt.	ESE	6.0	45.4		0			35.0
		12	6 a.m.	ESE	6.0	45.6	-10.8	1	Cust.		35.2
		-	9 a.m.	ESE	6.0	46.4	-11.8	1	Cust.		36.0
		-	5 p.m.			47.9					37.5
		13	4 a.m.		0	53.4					43.0
		-	8 a.m.		0	54.4					44.0
		-	Noon		0	55.4	-15.7	9	Cust.		45.0
		-	3 p.m.		0	56.4	-16.6	8	Str.		46.0
		-	6 p.m.	ENE	2.0	58.4	-16.6	0			48.0
		-	9 p.m.			59.2					48.8
		14	8 a.m.		0	60.4		0			50.0
		-	Noon		0	60.4	-12.7	10 *	Str.		50.0
		-	3 p.m.	ESE	1.0	61.6	-12.7	10 *	Str.		51.2
		-	9 p.m.			63.4		10			53.0
		15	8 a.m.			65.4					55.0
		-	Noon			65.2					54.8
		-	4 p.m.	ESE	4.0	64.9	-16.6	10 *	Str.		54.5
		-	6 p.m.	ESE	4.0	64.9	-17.1	8 *	Str.		54.5
		-	11 p.m.			64.4					54.0
		16	8 a.m.			69.4					59.0
		-	2 p.m.	WNW	6.0	61.4	-24.5	0			51.0
		-	4 p.m.	WNW	5.0	61.4	-24.5	0			51.0
		-	7 p.m.	WNW	5.0	61.2		0			50.8



1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	9 Cloud		11 Remarks	12 Read. of Ane- roid.
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1895	Dec.	16	11 p.m.			760.4					750.0
		17	8 a.m.			57.9					47.5
		-	Noon			57.4					47.0
		-	3 p.m.	NNE	4.0	56.9	-27.4	0			46.5
		-	5 p.m.	NNE	4.0	56.4	-27.9			W	46.0
		-	7 p.m.			56.4					46.0
		-	10 p.m.			56.4					46.0
		18	6 p.m.	NNW	5.0	57.4	-30.3	0		W	47.0
		19	9 a.m.			60.0					49.6
		-	8 p.m.	NNW	6.0	63.4	-27.9	10	Str.		53.0
		-	Mnt.	NNW	3.0	65.4		10	Str.		55.0
		20	Noon	NNW	8.0	67.4					57.0
		-	9 p.m.	NNW	4.0	67.2	-31.3	4	Str.		56.8
		21	2 a.m.			67.2					56.8
		-	10 a.m.			66.4					56.0
		-	2 p.m.			65.4					55.0
		-	8 p.m.	ESE	2.0	63.2	-28.4	2	Str.		52.8
		-	11 p.m.	ESE	5.0	63.4	-29.4	3	Str.		53.0
		22	8 p.m.	ESE	3.0	66.4					56.0
		23	7 a.m.	ESE	7.0	67.2	-27.4	3 *	Str.		56.8
		-	9 a.m.	ESE	7.0	68.4	-27.4	4 *	Str.		58.0
		-	Noon			68.7					58.3
		24	5 a.m.			80.2					69.8
		-	2 p.m.	ESE	7.0	78.4	-23.5	2	Cu.		68.0
		-	7 p.m.			78.4					68.0
		-	10 p.m.			78.6					68.2
		25	Noon			70.4					60.0
		-	6 p.m.	ESE	3.0	70.4	-30.3	0		W	60.0
		-	11 p.m.			71.2					60.8
		26	9 a.m.			71.4					61.0
		-	Noon			71.4					61.0
		-	7 p.m.	ESE	3.0	70.4	-32.3	0			60.0
		-	Mnt.			69.7					59.3
		27	11 a.m.			61.4					51.0
		-	2 p.m.			59.7					49.3
		-	8 p.m.	ESE	8.0	56.4	-21.4	10	Str.		46.0
		28	3.30 a.m.			53.4					43.0
		-	9 a.m.			51.4					41.0
		-	1 p.m.			51.2					40.8
		-	6 p.m.	WSW	4.0	50.7	-26.4	10	Cust.		40.3
		-	9 p.m.	WSW	4-5	49.9	-26.9	10	Cust.		39.5

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	10 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m.p.s.			Am.	Form.		
1895	Dec.	29	1.30 a.m.			750.4					740.0
		-	10 a.m.			51.8					41.4
		-	4 p.m.			51.9					41.5
		-	7 p.m.		0	51.9	-31.4	4	Cicu.		41.5
		-	10 p.m.	ENE	20	51.9	-32.1	3	Cicu.		41.5
		30	2 a.m.			52.0					41.6
		-	Noon			52.1					41.7
		-	9 p.m.		0	52.1	-34.3	4	Ci.		41.7
		-	Mnt.	ESE	1.0	52.2	-35.0	3	Ci.		41.8
		31	1.30 a.m.	ESE	1.0	52.3	-35.2	3	Ci.		41.9
		-	5 a.m.			52.4					42.0
		-	Noon			51.9					41.5
		-	7 p.m.	N	4-5	51.7	-37.4	3	Cicu.		41.3
		-	9 p.m.	N	4-5	51.7	-37.7				41.3
		-	Mnt.			52.5					42.1
1896	Jan.	1	4 p.m.			53.4					43.0
		-	9 p.m.	N	3.0	53.2	-40.8	5	Cu.		42.8
		-	Mnt.			53.5					43.1
		2	3 p.m.			55.4					45.0
		-	10 p.m.	NNE	1.0	56.5	-40.7	3	Cicu.		46.1
		3	3 a.m.			57.6					47.2
		-	5 a.m.			58.4					48.0
		-	3 p.m.			59.9					49.5
		-	10.30 p.m.	NNE	3.0	58.7	-37.2	10			48.3
		-	Mnt.	NNE	3.0	58.4	-36.7				48.0
		4	2 a.m.	NNE	4.0	57.9					47.5
		-	6 a.m.	NNE	6.0	57.6					47.2
		-	3 p.m.			58.4					48.0
		-	Mnt.	WNW	4.0	57.9	-35.0	10	Cust.		47.5
		5	3 a.m.	WNW	4.0	56.9	-34.3	10	Cust.		46.5
		-	5 p.m.			56.6					46.2
		-	6 p.m.			53.4					43.0
		6	2 a.m.	ESE	9.0	48.4	-33.3	5*	Cust.		38.0
		-	4 a.m.	ESE	9.0	47.9	-31.8	10	Str.		37.5
		-	6 a.m.			47.4					37.0
		-	1 p.m.			42.4					32.0
		-	4 p.m.			40.9					30.5
		7	2 a.m.	SSE	15.0	32.4	-24.5	10*	Str.		22.0
		-	4 a.m.			30.8					20.4
		-	6 a.m.	SSE	18.0	23.6					18.2

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press.	8 Air- Temp. C°	9 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.	mm.		Am.	Form.		
1896	January	7	8 a.m.			728.2					717.8
		-	10 a.m.	SSE	12.0	28.4					18.0
		-	Noon	NNW	8.0	31.9		10*	Str.		21.5
		-	7 p.m.			35.4					25.0
		-	Mnt.			36.9					26.5
		8	5 a.m.	NNW	10.0	36.4					26.0
		-	7 a.m.	NNW	15.0	36.4	-29.4	10 * <sup>2</sup>	Str.		26.0
		-	10 a.m.			36.4					26.0
		-	2 p.m.			37.2					26.8
		-	6 p.m.			38.4					28.0
		-	8 p.m.			39.1					28.7
		-	10 p.m.			39.4					29.0
		9	1 a.m.			40.2					29.8
		-	3 a.m.			41.0					30.6
		-	6 a.m.			42.9					32.5
		-	8 a.m.			44.4					34.0
		-	11 a.m.			45.4					35.0
		-	Noon	NNE	12.0	45.6	-27.4	10	Str.		35.2
		-	1 p.m.	NNE	12.0	49.0	-27.4	4	Str.		38.6
		-	4 p.m.	NNE	12.0	49.4		0			39.0
		-	7 p.m.			50.5					40.0
		-	Mnt.			52.4					42.0
		10	7 a.m.			53.9					43.5
		-	10 a.m.			54.4					44.0
		-	1 p.m.			54.6					44.2
		-	3 p.m.	NNE	8.0	55.4	-33.3	10°	Str.°		45.0
		-	5 p.m.			55.9					45.5
		-	10 p.m.			55.1					44.7
		11	1 a.m.			55.4					45.0
		-	5 a.m.			55.4					45.0
		-	7 a.m.			55.9					45.5
		-	10 a.m.			56.4					46.0
		-	5 p.m.	ENE	8.0	55.9	-40.1	0		W	45.5
		-	8 p.m.			55.0					44.6
		-	10 p.m.			55.4					45.3
		12	8 a.m.			55.4					45.0
		-	6 p.m.	NNW	3.0	53.8	-38.1	10°	Str.°		43.5
		-	10 p.m.		0	53.4					43.0
		13	2 a.m.			52.4					42.0
		-	11 a.m.			51.4					41.0
		-	9 p.m.	NNW	3.0	50.9	-37.2	10	Str.°	W	40.5

1	2	3	4	5	6	7	8	9	10	11	12
Year	Month	Day	Hour	Wind		Atm. Press.	Air-Temp.	Cloud		Remarks	Read. of Ane-roid
				Dir. true.	Vel. m. p. s.	mm.	C°	Am.	Form.		
1896	January	14	2 a.m.	NNW	3.0	751.0		0			740.6
		-	5 a.m.	NNW	3.0	51.2		0			40.8
		-	7 p.m.			52.4					42.0
		-	Mnt.			53.4					43.0
		15	6 a.m.	SSE	1.0	54.4	-38.1	1	Str.		44.0
		-	11 a.m.			55.4					45.0
		-	Mnt.			58.4					48.0
		16	9 a.m.	SSE	10.0	57.9	-33.3	10	Str. °		47.5
		-	6 p.m.	SSE	12.0	54.4		10 *	Str.		44.0
		17	4 a.m.	SSE	6.0	49.4					39.0
		-	Noon			54.2	-26.4				43.8
		-	6 p.m.			57.4					47.0
		18	5 a.m.	SSE	6.0	59.4					49.0
		-	1 p.m.			58.4	-12.2	0.5	Cu.		48.0
		-	4 p.m.	SSE	6.0	57.9	-13.2	0.5	Cu.		47.5
		-	6 p.m.	SSE	6.0	57.9		0			47.5
		19	6 a.m.			51.4					41.0
		-	2 p.m.	ESE	6.0	48.4	-14.9	10 *	Str.		38.0
		-	5 p.m.	ESE	7.0	47.9	-15.2				37.5
		20	4 a.m.			45.6					35.2
		-	Noon	SSE	5.0	46.9	-20.1	3	Cu.		36.5
		-	4 p.m.	SSE	2.0	48.0	-15.6	3	Cu.		37.6
		21	6 a.m.			48.6					38.2
		-	1 p.m.	SSE	0.5	48.2	-19.2	10 *	Str.		37.8
		-	4 p.m.	NNE	1.0	48.6	-19.2	5°		mist ☽	37.2
		-	8 p.m.			47.4					37.0
		22	6 a.m.			45.7					33.8
		-	2 p.m.	NNE	3.0	43.4	-22.0	7 *	Str.		33.0
		-	4 p.m.	NNE	4.0	43.4	-22.0	6 *	Str.		33.0
		-	8 p.m.			43.7					33.3
		23	6 a.m.			41.4					31.0
		-	2 p.m.	SSE	8.0	39.4	-22.5	1	Cu.		29.0
		-	5 p.m.	SSE	8.0	38.4	-21.5	1	Cu.		28.0
		-	10 p.m.			36.4					26.0
		24	4 a.m.			34.4					24.0
		-	8 a.m.			32.7					22.3
		-	10.30 a.m.		0	32.4					22.0
		-	3 p.m.		0	31.2	-18.8	10	Cu.		20.8
		-	4 p.m.	ESE	5.0		-17.5	10 *	Cu.		
		-	6 p.m.	ESE	5.0	29.9	-18.6	10	Cu.		19.5
		-	8 p.m.	ESE	6.0	29.6					19.2

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	9 Cloud		11 Remarks	12 Read. of Ane- roid.
				Dir. true.	Vel. m.p.s.			Am.	Form.		
1896	January	24	11 p.m.	ESE	8.0	730.6					720.2
		25	3 a.m.	ESE	10.0	29.9					19.5
		-	5 a.m.	ESE	10.0	32.4					22.0
		-	11 a.m.	ESE	12.0	36.4					26.0
		-	11 p.m.	ENE	8.0	39.4					29.0
		-	Mnt.	ENE	8.0	40.4	-23.2	10*	Str.		30.0
		26	7 a.m.	ENE	5.0	42.0					31.6
		-	10 p.m.			47.4					36.0
		-	Mnt.			48.4					38.0
		27	3 a.m.			49.9					39.5
		-	9 a.m.			53.8					43.4
		-	Noon	NNE	8.0	55.4	-30.5	10*	Str.		45.0
		-	4 p.m.	NNE	8.0	58.9					48.5
		-	Mnt.			64.2					53.8
		28	4 a.m.			65.4					55.0
		-	Noon	NNE	4.0	66.4	-26.1	10	Str.		56.0
		-	3 p.m.	NNE	4.0	65.9	-26.1	10*	Str.		55.5
		-	6 p.m.			64.7					54.3
		29	8 a.m.			60.4					50.0
		-	1 p.m.	ESE	5.0	59.6	-21.0	4	Cu.		49.2
		-	4 p.m.	ESE	5.0	58.9	-20.5	4	Cu.		48.5
		-	7 p.m.			58.4					48.0
		30	6 a.m.			55.4					45.0
		-	1 p.m.	ESE	6.0	55.4	-21.6	1	Cu.		45.0
		-	5 p.m.	ESE	6.0	54.9	-22.0	1	Cu.		44.5
		31	7 a.m.			57.4					47.0
		-	1 p.m.	ESE	4.0	58.4	-21.5	4	Cu.		48.0
		-	7 p.m.			60.9					50.5
	February	1	10 a.m.			58.4					48.0
		-	2 p.m.	SSE	5.0	56.9	-21.5	2	Cu.		46.5
		-	4 p.m.	SSE	5.0	56.2	-22.2	4	Cu.		45.8
		-	8 p.m.			53.7					43.3
		2	7 a.m.	S	15.0	38.4		10*	Str.		28.0
		-	3.30 p.m.	S	15.0	23.2	-15.6	10*	Str.		12.8
		-	4.30 p.m.	S	15.0	22.9					12.5
		-	6 p.m.			23.2					12.8
		-	8 p.m.		0	26.2					15.8
		-	11 p.m.			26.9					16.5
		3	2 a.m.			27.4					17.0
		-	5 a.m.			29.4					19.0

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	9 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true	Vel. m. p. s.			Am.	Form.		
1896	February	3	7.30 a.m.			730.2					719.8
		-	12.30 p.m.	SSE	5.0	33.4	-16.6	10*	Str.		23.0
		-	3 p.m.	SSE	3.0	34.2	-16.6	9*	Str.		23.8
		-	7 p.m.			36.6					26.2
		4	3 a.m.			38.8					28.4
		-	10 a.m.			42.4					32.0
		-	3 p.m.	NNE	6.0	45.4	-24.3	10*	Str.		35.0
		-	8 p.m.	NNE	2.0	46.9		10*	Str.		36.5
		5	8 a.m.		0	48.4					38.0
		-	3 p.m.		0	49.9	-28.4	10	Cist.		39.5
		-	6 p.m.		0	50.7					40.3
		-	9 p.m.		0	51.4					41.0
		6	10 a.m.		0	52.4					42.0
		-	3 p.m.		0	53.4	-32.3	3	Cicu.		43.0
		-	6.30 p.m.		0	53.4					43.0
		7	8 a.m.		0	53.2					42.8
		-	3.30 p.m.	ENE	2.0	52.9	-25.0	3	Cust.		42.5
		-	6 p.m.		0		-26.4	3	Cust.		
		-	10 p.m.		0	52.9					42.5
		8	Noon		0	54.4					44.0
		-	5.30 p.m.		0	54.9	-32.8	0			44.5
		-	8 p.m.		0	54.6	-33.3	0			44.2
		9	8 a.m.		0	56.4					46.0
		-	Noon		0	57.4	-31.9	1	Cicu.		47.0
		-	3 p.m.		0		-31.9		Cicu.		
		-	5 p.m.		0	58.4			Cicu.		48.0
		10	8 a.m.			57.4					47.0
		-	3 p.m.	SSW	8.0	56.4	-24.1	2	Cu.		46.0
		-	4 p.m.	SSW	8.0			9	Str.		
		-	10 p.m.			53.7					43.3
		11	8 a.m.	SSE	10.0	51.9					41.5
		-	2 p.m.	SSE	6.0	51.4	-17.4	2	Cu.		41.0
		-	5 p.m.	SSE	5.0	51.4	-17.4	2	Cu.		41.0
		-	9 p.m.			50.9					40.5
		12	9 a.m.	ESE	3.0	50.8	-28.8	1	Cu.		40.4
		-	4 p.m.	ESE	1.0	51.4	-31.8	4	Cust.		41.0
		-	6 p.m.	ESE	1.0		-32.3	4	Cust.		
		13	9 a.m.	ENE	3.0	56.2	-28.1	10	Cust.		45.8
		-	Noon	ENE	2.0	57.4	-28.9	3	Cust.		47.0
		-	2.30 p.m.	ENE	3.0	57.8	-19.8	10	Cust.		47.4
		-	8 p.m.			60.4					50.0

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	9 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1896	February	14	9 a.m.	NNE	4.0	762.4	-31.2	0			752.0
		-	Noon	NNE	3.0	63.4	-31.8	0			53.0
		-	3 p.m.	NNE	3.0	63.4	-33.3	0			53.0
		-	8 p.m.			60.4					50.0
		15	9 a.m.	ESE	6.0	55.4	-25.1	10	Cust.		45.0
		-	Noon	ESE	7.0	53.9	-21.1	10	Str.		43.5
		-	2.30 p.m.	ESE	8.0		-19.9	10	Str.		
		-	4 p.m.			52.4					42.0
		-	6 p.m.			51.2					40.8
		16	11 a.m.	SSE	5.0	36.4	-12.2	10*	Str.		26.0
		-	2 p.m.	SSE	5.0	35.4	-11.5	10*	Str.		25.0
		-	p.m.	SSE	5.0	34.6	-11.8	10*	Str.		24.2
		-	7 p.m.			34.4		10*			24.0
		-	9 p.m.			34.4					24.0
		17	9.30 a.m.			38.4					28.0
		-	10.30 a.m.	NNE	8.0	39.4	-31.0	10	Str.		29.0
		-	2 p.m.	NNE	8.0	42.4	-34.0	2	Cu.		32.0
		-	9 p.m.	NNE	7.0	48.1					37.7
		18	10.30 a.m.			34.4					24.0
		-	11.30 a.m.	SSE	11.0	32.9	-22.8	10* <sup>2</sup>	Str.		22.5
		-	4 p.m.	SSE	11.0	23.2	-22.3	10* <sup>2</sup>	Str.		12.8
		-	5.30 p.m.		0	22.4					12.0
		-	8 p.m.		0	23.0					12.6
		-	10.30 p.m.			25.3					14.9
		19	9 a.m.			41.9					31.5
		-	10 a.m.	NNE	6.0	43.4	-33.4	4	Cu.		33.0
		-	3 p.m.	NNE	7.0	48.0	-37.3	10	Str.		37.6
		-	5.30 p.m.			50.4					40.0
		20	11 a.m.	NNE	5.0	62.4	-37.2	3		m	52.0
		-	3.30 p.m.	NNE	4.0	65.4	-37.2	0			55.0
		-	4.30 p.m.	NNE	4.0	66.0	-37.1	1	Cu.		55.6
		-	8 p.m.			68.7					58.3
		21	11 a.m.	SSE	8.0	62.4	-24.1	10*	Str.		52.0
		-	5 p.m.	SSE	8.0		-15.8	10*	Str.		
		-	8 p.m.			52.9					42.5
		22	1.30 a.m.			47.4					37.0
		-	11 a.m.	WSW	6.0	38.7	-1.0	10*	Cust.		28.3
		-	1.30 p.m.	WNW	6.0	36.4	-2.2	10*	Str.		26.0
		-	2.30 p.m.	WNW	6.0	36.4	-3.6	10*	Str.		26.0
		-	4.30 p.m.	NNW	7.0	38.9	-4.7	10*	Str.		28.5
		-	8 p.m.			41.4					31.0

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press mm.	8 Air- Temp. C°	9 Cloud		11 Remarks	12 Read. of Ane- roid.
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1896	February	23	9 a.m.			731.7					721.3
		-	10.30 a.m.	NNE	8.0	33.4	-22.5	10 *	Str.		23.0
		-	4 p.m.	NNE	9.0	38.4	-27.8	6	Cust.		28.0
		-	6 p.m.			39.6					29.2
		-	8 p.m.			39.9					29.5
		24	10 a.m.	NNE	5.0	54.9	-23.7	10	Str.		44.5
		-	11.30 a.m.	NNE	5.0	55.9	-21.8	10	Cust.		45.5
		-	12.30 p.m.	NNE	5.0	56.4	-22.4	10	Cust.		46.0
		-	3 p.m.	NNE	5.0	56.6	-23.2	2	Cust.		46.2
		-	8 p.m.	NNE	6.0	56.6		0			46.2
		25	4 a.m.	WSW	6.0	46.4		10 *	Str.		36.0
		-	11.30 a.m.	WSW	6.0	43.2	-10.0	10 *	Str.		32.2
		-	3 p.m.	WNW	4.0	44.9	- 8.8	10	Str.		34.5
		-	4 p.m.	NNW	4.0	45.4	- 9.7	1	Cu.		35.0
		-	5 p.m.		0		-11.3	1	Cu.		
		-	7 p.m.	S	4.0	45.4	- 9.8	9	Cu.		35.0
		-	10 p.m.			45.2					34.8
		-	Mnt.			45.2					34.8
		26	Noon	S	5.0	41.4	- 5.8	10 *	Str.		31.0
		-	5 p.m.	S	4.0	42.4	- 5.9	9	Cust.		32.0
		-	7 p.m.	S	6.0	41.9	- 5.8	10	Cust.		31.5
		-	Mnt.			39.4					29.0
		27	Noon	NNE	5.0	44.9	-25.6	1	Cu.		34.5
		-	3 p.m.	SSW	6.0	44.9	-23.1	10 *	Str.		34.5
		-	6 p.m.	SSW	6.0	44.4	-22.9	10 *	Str.		34.0
		-	9 p.m.			36.9					26.5
		-	Mnt.			32.4					22.0
		28	11.30 a.m.			30.4					20.0
		-	12.30 p.m.	ENE	4.0	30.4	-11.0	10	Str.		20.0
		-	3 p.m.	NE	7.0	31.3					20.9
		-	8 p.m.	NNE	6.0	37.2	-29.0	0		W	26.8
		-	Mnt.			42.3					31.9
		29	12.30 a.m.			48.3					37.9
		-	1.30 p.m.	NNE	1.0	48.4	-30.6	0		m. horiz.	38.0
		-	3 p.m.	NNE	2.0	48.9	-31.0	10°		m.	38.5
		-	5 p.m.	NNE	2.0	49.4	-31.0	10°		m.	39.0
		-	8 p.m.			50.4					40.0
		-	10 p.m.			50.4					40.0
	March	1	9 a.m.			57.4					47.0
		-	10 a.m.	NNW	3.0	57.5	-32.5	10°		m.	47.1



1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press.	8 Air- Temp.	9 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.	mm.	C°	Am.	Form.		
1896	March	1	4.30 p.m.	NNW	3.0	762.4	-31.7	1	Cu.		752.0
		-	6 p.m.	NNE	2.0	62.9	-27.7	3	Cu.		52.5
		-	11 p.m.			64.7					54.2
		-	Mnt.			65.3					54.9
		2	11 a.m.	SSE	6.0	65.7	-18.8	2	Cicu.		55.3
		-	7 p.m.	SSE	7.0	60.9	-22.3	2	Cu.		50.5
		-	10 p.m.			60.7					50.3
		3	11 a.m.	ESE	2.0	61.2	-25.1	10°			50.8
		-	2 p.m.	ESE	5.0	61.4	-25.1	10°*	Str.		51.0
		-	2.30 p.m.	ESE	7.0	61.2	-24.4				50.8
		-	6 p.m.	ESE	7.0	59.4	-13.4	10 *	Str.		49.0
		-	6.30 p.m.				-17.8	10 *	Str.		
		-	11 p.m.			56.2					45.8
		4	10 a.m.		0	54.9	-12.9	10 *	Str.		44.5
		-	3 p.m.	WNW	4.0		-17.0	9	Cust.		
		-	4 p.m.	WNW	4.0	58.4	-18.1	9	Cu.		48.0
		-	5.30 p.m.	WNW	4.0		-19.7	*	Cu.		
		-	6 p.m.	WNW	5.0		-18.8	*	Cu.		
		-	10 p.m.			61.9					51.5
		5	9.30 a.m.		0	65.4	-18.7	10	Cust.		55.0
		-	3 p.m.	ESE	3.0	65.9	-18.4	10	Ci.		55.5
		-	6 p.m.	ESE	4.0	66.4	-19.8	3	Cu.		56.0
		-	9 p.m.	ESE	3.0	67.4	-20.1	1	Cu.		57.0
		6	10 a.m.	SSE	8.0	65.4	-15.2	10 *	Str.		55.0
		-	8 p.m.	SSE	6.0	59.4	- 3.6	10	Str.		49.0
		-	10 p.m.			59.4					49.0
		7	3 p.m.	SSE	1.0	61.0	- 2.4	10	Str.		50.6
		-	7 p.m.	SSE	3.0	61.3	- 2.3	10 *	Str.		50.9
		-	9 p.m.			61.6					51.2
		8	9 a.m.	SSW	6.0	62.4	- 2.3	10 *	Str.		52.0
		-	11 p.m.	SSW	7.0	64.4		10	Cust.		54.0
		9	2 p.m.	WSW	4.0	71.4	- 2.1	10	Cust.		61.0
		-	8 p.m.	WSW	4.0	72.4	- 2.5	10	Str.		62.0
		-	9 p.m.			73.4					63.0
		10	6 a.m.	SSW	4.0	77.4	- 3.1	10	Str.		67.0
		-	2 p.m.	SSW	3.0	78.6	- 5.7	10	Str.		68.2
		-	6 p.m.	WSW	4.0	79.7	- 7.0	10	Str.		69.3
		-	10 p.m.			80.3					69.9
		11	8 a.m.			76.5					66.1
		-	10 a.m.	SSW	6.0	75.9	- 5.7	10 *	Str.		65.5
		-	3.30 p.m.	SSW	4.0	75.8	- 4.6	10	Str.		65.4

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	10 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1896	March	11	5 p.m.	SSW	4.0	775.8	-4.4	10	Str.		765.4
		-	7 p.m.	SSW	5.0	75.8	-5.0	10	Str.		65.4
		-	10 p.m.			77.4					67.0
		12	10 a.m.	SSW	3.0	75.7	-6.5	10 *	Str.		65.3
		-	3 p.m.	SSW	1.0	73.7	-5.6	10	Str.		63.3
		-	8 p.m.	SSW	2.0	75.8	-6.7	10	Str.		65.4
		-	11 p.m.			76.6					66.2
		13	Noon	SW	5.0	72.7	-5.8	10 *	Str.		62.3
		-	3 p.m.	SW	5.0	71.3	-6.0	10 *	Str.		60.9
		-	5.30 p.m.	SW	5.0	69.4	-6.2	10 *	Str.		59.0
		-	7 p.m.	SW	5.0	68.9	-6.2	10 *	Str.		58.5
		-	9.30 p.m.			68.4					58.0
		14	8 a.m.			63.4					53.0
		-	10 a.m.	WSW	7.0	63.4	-3.8	10	Str.		53.0
		-	4 p.m.	WSW	5.0	63.4	-4.6	10	Str.		53.0
		-	8 p.m.	WSW	5.0	63.9	-6.2	5	Cu.		53.5
		-	11 p.m.			64.6					54.2
		15	Noon	WSW	6.0	66.8	-4.2	10	Str.		56.4
		-	5 p.m.	WSW	5.0	66.9	-5.1	10 *	Str.		56.5
		-	8 p.m.	WSW	6.0	67.0	-5.9	10 *	Str.		56.6
		-	9 p.m.	WSW	6.0	67.1	-6.4	10 *	Str.		56.7
		-	Mnt.			67.4					57.0
		16	10 a.m.	ESE	4.0	66.2	-8.2	5	Cu.		55.8
		-	4 p.m.	ESE	4.0	63.4	-8.0	4	Cicu.		53.0
		-	7 p.m.	ESE	5.0	62.4	-9.3	1	Cu.		52.0
		-	10.30 p.m.	SSW	1.0	61.6					51.2
		-	Mnt.			62.5					52.1
		17	11 a.m.	ESE	7.0	58.7	-11.4	10	Str.		48.3
		-	6 p.m.	ESE	7.0	57.9	-11.6	10 *	Str.		47.5
		-	10 p.m.			57.9					47.5
		18	10 a.m.	ESE	6.0	58.2	-11.8	0			47.8
		-	4 p.m.	ESE	5.0	57.4	-16.2	0			47.0
		-	7 p.m.	ESE	5.0	57.4	-22.5	0			47.0
		-	10 p.m.			57.9					47.5
		19	10.30 a.m.		0	60.4	-20.9	5	Cicu.		50.0
		-	4 p.m.		0	62.4	-18.6	6	Cicu.		52.0
		-	7 p.m.		0	62.7	-21.5	2	Cu.		52.3
		-	10 p.m.			62.9					52.5
		20	Noon	SSE	4.0	63.6	-13.4	10	Cust.		53.2
		-	5 p.m.	SSE	4.0	62.9	-12.5	10	Cu.		52.5
		-	7.30 p.m.	SSE	4.0	62.4	-12.7	10	Cu.		52.0

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	9 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1896	March	20	9 p.m.	SSE	4.0	762.4	-13.4	9	Cu.		752.0
		-	11 p.m.			62.9					52.5
		21	9.30 a.m.	ESE	4.0	61.9	-14.3	10	Cust.		51.5
		-	2 p.m.	ESE	1.0	61.4	-18.4	5	Cu.		51.0
		-	6 p.m.	ESE	0.5	60.9	-20.8	6	Cu.		50.5
		-	8 p.m.	WNW	0.5	60.8					50.4
		22	11 a.m.	ESE	6.0	59.4	-15.2	0			49.0
		-	4 p.m.	ESE	6.0	58.7	-17.7	7	Cu.		48.3
		-	6 p.m.	ESE	6.0	57.9	-15.5	7	Cu.		47.5
		-	8 p.m.	ESE	6.0	58.6	-15.7	6	Cu.		48.2
		23	10.30 a.m.	ESE	4.0	59.4	-17.0	8	Cicu.		49.0
		-	6 p.m.	ESE	6.0	58.2	-17.1	0			47.8
		-	9 p.m.	ESE	6.0	57.1	-17.8	0			46.7
		24	11 a.m.	E	8.0	54.4	-16.0	0			44.0
		-	9 p.m.	E	5.0	53.4	-15.6	1	Cu.		43.0
		25	Noon	ESE	5.0	57.7	-14.7	9	Cu.		47.3
		-	8 p.m.	ESE	3.0	59.6	-15.6	10	Cust.		49.2
		-	10 p.m.	ESE	3.0		-16.8	10	Cust.		
		-	Mnt.			60.6					50.2
		26	11 a.m.	ESE	4.0	64.6	-13.5	10 *	Str.		54.2
		-	6 p.m.	ESE	3.0		-13.1	10 *	Str.		
		-	8 p.m.	ESE	3.0	65.9	-12.7	10	Str.		55.5
		-	10 p.m.	ESE	3.0	65.9	-12.6	9	Cust.		55.5
		-	Mnt.	WSW	1.0	65.9					55.5
		27	Noon	ENE	3.0	66.9	-12.9	10	Str.		56.5
		-	6 p.m.	NNE	3.0	66.9	-13.5	9	Str.		56.5
		-	10 p.m.	NNE	1.0	66.5	-12.5	4	Cust.		56.1
		-	Mnt.	SSW	1.0	66.7					56.3
		28	Noon	WNW	3.0	69.4	- 9.8	10 *	Str.		58.2
		-	4 p.m.	WNW	2.0	69.4	- 9.6	10 *	Str.		59.0
		-	8 p.m.	WNW	2.0	70.4	- 8.3	10 *	Str.		60.0
		-	11 p.m.	WNW	1.0		- 8.3	10	Str.		
		29	1 p.m.	WSW	2.0	72.4	- 5.9	10 *	Str.		62.0
		-	8 p.m.	WSW	3.0	71.4	- 7.1	10 *	Str.		61.0
		-	11 p.m.	WSW	3.0	71.4	- 7.0	10 *	Str.		61.0
		30	1 p.m.	SW	4.0	70.6	- 6.7	10 *	Str.		60.2
		-	10 p.m.	SW	4.0	69.4	- 7.5	10 *	Str.		59.0
		-	Mnt.	SW	4.0	68.7	- 7.1	10 *	Str.		58.3
		31	2 p.m.	SSW	4.0	68.2	- 7.9	10 *	Str.		57.8
		-	9 p.m.	SSW	5.0	66.9	-10.0	10 *	Str.		56.5
		-	Mnt.	SSW	5.0	66.9	-10.7	10 *	Str.		56.5

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	9 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1896	April	1	1 p.m.	SSE	6.0	766.6	-14.8	0			756.2
		2	3 a.m.	SSE	4.0	65.5	-12.7	10	Str.		55.1
		-	6 a.m.	SE	4.0	64.4	-11.7	10	Str.		54.0
		-	8 p.m.	SE	4.0	63.7	-10.8	10*	Str.		53.6
		3	1 a.m.	SSE	3.0	64.6	-9.9	10*	Str.		54.2
		-	Noon	SSE	4.0	63.4	-5.8	10*	Str.		53.0
		4	1 a.m.	SSE	4.0	61.4	-5.7	10	Str.		51.0
		-	3 a.m.	SSE	4.0	62.0	-5.8	5	Cu.		51.6
		-	6 p.m.	SE	2.0	63.9	-5.1	8	Cu.		53.5
		5	6 a.m.		0	66.4	-7.0	9	Str.		56.0
		-	11 a.m.	SE	3.0	67.4	-6.8	9	Cu.		57.0
		6	12.30 a.m.	ESE	5.0	66.4	-7.1	10	Cust.		56.0
		-	1 p.m.	ESE	6.0	65.4	-8.1	3	Cicu.		55.0
		-	5 p.m.	ESE	6.0	65.0	-8.0	4	Cicu.		54.6
		7	6 a.m.	ESE	10.0	61.2	-11.2	10	Cust.		50.8
		-	Noon	ESE	10.0	59.4	-11.4	7	Cu.		49.0
		-	8 p.m.	ESE	9.0	57.4	-12.4	10	Str.		47.0
		8	2 a.m.			56.4		*			46.0
		-	11 a.m.	ESE	9.0	53.9	-12.0	10	Cust.		43.5
		-	9 p.m.	ESE	6.0	54.0	-8.5	10*	Cust.		43.6
		-	Mnt.								44.0
		9	9 a.m.	ESE	9.0	53.6	-9.3	8	Cu.		43.2
		-	8 p.m.	SSE	6.0	55.4	-2.6	10*	Cust.		45.0
		-	11 p.m.	SSE	6.0	55.9	-3.0	10*	Cust.		45.5
		10	4 p.m.	SSE	6.0	56.4	-3.2	10	Cust.		46.0
		-	11 p.m.	ESE	6.0	54.4	-7.0	10*	Str.		44.0
		11	1.30 a.m.	ESE	6.0		-6.1	10*	Str.		
		-	4 a.m.			53.6					43.2
		-	1 p.m.	ESE	4.0	51.0	-3.1	10*	Str.		40.6
		-	11 p.m.	WNW	2.0	53.9	-4.5	10	Str.		43.5
		12	3 a.m.	NNW	3.0	54.4	-4.8	10*	Str.		44.0
		-	7 a.m.			55.9					45.5
		-	6 p.m.		0	55.9	-5.4		Ci. Cust.		45.5
		13	6 a.m.	NNE	1.0	57.4	-8.0	10*	Str.		47.0
		-	9 a.m.	NNE	2.0	58.4	-10.1	10*	Cust.		48.0
		-	8 p.m.	NNE	1.0	61.4	-13.7	10*	Str.		51.0
		-	Mnt.	NNE	2.0	63.4	-16.1	10*	Str.		53.0
		14	8 a.m.	NNE	6.0		-21.7	5	Cust.		
		-	10 a.m.	NNE	4.0	65.9	-20.5	2	Cust.		55.5
		-	2 p.m.			67.4					57.0
		-	11 p.m.	SSW	4.0	67.2	-21.7	10*	Str.		56.8

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	9 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1896	April	15	Noon		0	763.2	-14.0	10*	Str.		752.8
		-	5 p.m.		0	62.4	-14.9	10*	Str.		52.0
		-	7 p.m.		0	62.6	-13.9	10*	Str.		52.2
		16	11 a.m.	ENE	6.0	63.7	-23.8	10°	Cist.		53.3
		-	9 p.m.	ENE	6.0	65.6	-25.0	2	Ci. Cust.		55.2
		17	9 a.m.	ENE	8.0	66.4	-22.5	10	Cicu.		56.0
		-	6 p.m.	ENE	6.0	67.4	-21.5	0			57.0
		-	9 p.m.	ENE	6.0	67.9	-22.0	0			57.5
		18	9.30 a.m.	ENE	6.0	69.4	-23.0	0			59.0
		-	6 p.m.	ENE	6.0	69.9	-20.1	0			59.5
		-	9 p.m.	ENE	6.0	70.2	-22.4	0			59.8
		19	10.30 a.m.	ENE	4.0	70.4	-19.2	0			60.0
		-	7 p.m.	ENE	4.0	70.3	-22.4	8	Ci.		59.9
		-	9 p.m.	ENE	4.0	69.4	-23.0	9	Ci.		59.0
		20	11.30 a.m.	ENE	3.0	66.7	-21.7	4	Ci.		56.3
		-	4 p.m.	ENE	3.0	66.8	-21.5	3	Ci.		56.4
		-	8 p.m.	ENE	4.0	66.7	-22.1	4	Ci.		56.3
		-	9.30 p.m.	ENE	4.0	66.6	-23.2	5	Ci.		56.2
		21	9.30 a.m.	ENE	6.0	64.6	-17.6	0			54.2
		-	8 p.m.	ENE	8.0	63.4	-17.4	0			53.0
		-	Mnt.			63.4					53.0
		22	Noon	ENE	8.0	62.2	-13.2	0			51.8
		-	8 p.m.	ENE	5.0	62.3	-13.9	0			51.9
		-	10 p.m.	ENE	5.0	62.3	-15.6	0			51.9
		-	Mnt.			62.7					52.3
		23	Noon	ENE	6.0	65.2	-11.7	1	Ci.		53.8
		-	2 p.m.	ENE	6.0		-13.0	1	Ci.		
		-	Mnt.	NE	4.0	65.9	-14.6	0			55.5
		24	3 a.m.			66.0					55.6
		-	2 p.m.	ENE	4.0	65.7	-14.5	0			55.3
		25	3 a.m.	ENE	4.0	65.7	-19.9	0			55.3
		-	6 a.m.	ENE	4.0	66.4	-14.7	0			56.0
		-	6 p.m.	ENE	6.0	66.6	-11.4	0			56.2
		26	6 a.m.	ENE	5.0		-18.1	0			
		-	7.30 a.m.	ENE	5.0		-16.9	0			
		-	9 a.m.			68.4					58.0
		-	10 p.m.	ENE	4.0	68.8	-11.7	0			58.4
		27	Noon	ENE	4.0	68.9	-13.5	0			58.5
		-	3 p.m.	ENE	4.0		-11.7	0			
		-	5.30 p.m.	ENE	4.0	67.9	-11.7	0			57.5
		28	9.30 a.m.	ENE	2.0	64.4	-17.2	0			54.0

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	9 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1896	April	28	8 p.m.		0		-15.1	0			
		-	11 p.m.		0	762.7	-13.9	0			752.3
		29	12.45 p.m.	ESE	1.0	62.1	-10.7	4	Ci.		51.7
		-	6 p.m.	ESE	0.5	62.4	-11.3	3	Ci.		52.0
		-	11 p.m.		0	63.4	-9.5	10*	Str.		53.0
		30	3.30 p.m.	ENE	3.5	67.2	-10.7	1	Ci.		56.8
	May	1	3 a.m.		0	69.9	-22.0	0			59.5
		-	5 a.m.		0	70.4	-22.0	0			60.0
		-	5 p.m.	ENE	3.0	72.4	-19.4	0			62.0
		2	6 a.m.		0	71.7	-22.5	10	Ci.		61.3
		-	9 a.m.	ENE	1.0	71.7	-17.8	0			61.3
		-	11 a.m.			71.6					61.2
		3	4 a.m.	ENE	4.0	68.4	-21.2	0			58.0
		-	7 p.m.		0	67.9	-11.8	10	Cist.		57.5
		-	10 p.m.		0	68.3	-13.7	10	Cist.		57.9
		4	12.30 p.m.	NNW	3.0	66.6	-11.1	10	Cicu.		56.2
		-	5 p.m.	WNW	3.0	66.7	-11.2	10	Cicu.		56.3
		-	10.30 p.m.		0	67.5	-15.0	0			57.1
		5	1.30 a.m.		0	68.0	-16.1	0			57.6
		-	2.30 p.m.	ENE	3.0	67.4	-13.0	0			57.0
		-	Mnt.	ENE	3.0	66.2	-18.9	0			55.8
		6	5 a.m.			65.7					55.3
		-	4 p.m.	ENE	4.0	65.4	-12.7	9°	Ci. Cust.		55.0
		-	7 p.m.	ENE	3.0	65.3	-14.7	10°	Ci. Cust.		54.9
		-	Mnt.	ENE	1.0	65.2	-18.9	10°	Ci.		54.8
		7	8 a.m.			65.5					55.1
		-	8 p.m.		0	63.9	-17.1	10	Str.		53.5
		-	Mnt.		0	63.4	-17.9	10*	Str.		53.0
		8	4 a.m.	NNW	3.0	62.8	-18.5	9	Cicu.		52.4
		-	9 a.m.	NNW	3.0	61.7	-15.7	8	Cicu.		51.3
		9	2 a.m.	NNW	1.0	60.9	-15.7	10	Str.		50.5
		-	9 a.m.	NNW	1.0		-13.2	10	Str.		
		-	Noon	NNW	1.0		-12.7	10	Str.		
		-	7 p.m.	NNW	1.0	61.4	-12.3	10	Str.		51.0
		-	11 p.m.			61.6					51.2
		10	11 a.m.	NNW	2.0	61.4	-10.8	10	Str.		51.0
		11	2 a.m.	NNW	1.0	62.0	-12.7	10*	Str.		51.6
		-	7 a.m.			60.7					50.3
		-	4 p.m.		0	61.7	-8.3	10*	Str.		51.3
		12	5 a.m.		0	61.7	-11.1	9	Cu.		51.3

1 Year	2 Month	3 Day	4 Hour	5 Wind		7 Atm. Press. mm.	8 Air- Temp. C°	9 Cloud		11 Remarks	12 Read. of Ane- roid
				Dir. true.	Vel. m. p. s.			Am.	Form.		
1896	May	12	8 a.m.	ENE	1.0	761.7	-15.8	2	Ci.		751.3
		-	10 a.m.			61.7	- 7.8	0			51.3
		-	Noon			61.7					51.3
		13	4 a.m.	ENE	1.0		-11.7	10	Str.		
		-	4 p.m.	WNW	1.0	60.6	- 7.2	10	Str.		50.2
		-	6 p.m.	WNW	1.0	60.5	- 8.6	10 *	Str.		50.1
		14	10 a.m.		0	60.6	- 2.5	10	Cicu.		50.2
		-	Noon	NNE	1.0	61.4	- 5.5	4	Ci.		51.0
		-	4 p.m.	WNW	3.0		- 5.0	10 *	Str.		
		-	8 p.m.	WNW	5.0	62.4	- 6.4	10	Str.		52.0
		-	10.30 p.m.			63.2					52.8
		15	8 a.m.	WNW	6.0	64.2	- 5.9	10 *	Str.		53.8
		-	Noon	WNW	6.0		- 5.0	10 *	Str.		
		-	5.30 p.m.	WNW	6.0	65.4	- 4.2	10 *	Cist.		55.0
		-	10 p.m.	WNW	6.0	67.0	- 9.4	5 *	Ci.		56.6
		-	11.30 p.m.			68.6					58.2
		16	Noon		0	68.7	- 6.0	10	Str.		58.3
		-	8 p.m.	ENE	1.0		- 5.9	7 *	Cist.		
		-	Mnt.	ENE	2.0	69.0	-12.5	8	Str.		58.6
		17	1 p.m.	ENE	6.0	65.9	- 9.6	10	Cicu.		55.5
		-	7 p.m.	ENE	5.0	63.9	- 9.3	1	Cu.		53.5
		-	Mnt.	ENE	6.0		-10.2	1	Cu.		
		18	6 a.m.			55.3					44.9
		-	5 p.m.		0	53.4	- 6.4	10	Cicu.		43.0
		-	Mnt.		0		- 8.2	10	Str.		
		19	3 a.m.			56.1					46.4
		-	10 a.m.	ENE	1.0	57.0	- 5.9	10	Str.		47.3

## FROM THE WINTER HUT TO CAPE FLORA.

1	2	2	4	5	6	7	8	9	10	11	12	13	14
Year	Month	Day	Hour	Lat.	Long.	Wind		Atm. Press.	Air Temp.	Cloud		Remarks	Read. of Aneroid.
						Dir. true	Vel. m. p. s.	mm.	C°	Am.	Form.		
1896	May	19	11 p.m.	81°13'	55°20'	ESE	0.5		-3.9	10	Str.		
		20	3 a.m.	81°2	55°2			758.7					749.0
		-	4.30 p.m.	81°2	55°1	NNW	1.0	59.8	-3.8	10	Cu.		50.1
		-	11.30 p.m.	81°2	55°0	WNW	2.0	60.7	-5.9	10	Str.		51.0
		21	2 p.m.	81°9'	54°8	WNW	1.0	64.6	-5.2	1	Ci.		54.9
		-	Mnt.	81°1	54°7	WSW	1.0	66.7	-4.7	9	Cicu.		57.0
		22	2 p.m.	81°1	54°6	WSW	10.0	65.2	-2.5	10 *	Str.		55.5
		-	7 p.m.	81°1	54°5	WSW	8.0	63.7	+0.4	10 *	Str.		54.0
		23	10 a.m.	-	-	WSW	5.0	64.2	-1.9	10 *	Str.		54.5
		-	7 p.m.	81°1	54°2	WSW	4.0	65.7		10 *	Str.		56.0
		-	Mnt.	-	-			66.8		10 *	Str.		57.1
		24	12.30 p.m.	81°1	54°0	ESE	0.5	65.7	-1.0	10	Str.		56.0
		-	6 p.m.	-	-	ESE	3.0	64.0	-1.3	0			54.3
		25	2 a.m.	-	-	SW	5.0	61.0	+2.5	9	Cust.		51.3
		-	9 p.m.	-	-	SSW	8.0	55.7		10 *	Str.		46.0
		26	2 p.m.	-	-	S	10.0	55.7		10	Cust.		46.0
		-	4 p.m.	-	-	S	10.0	52.7	+1.7	10	Cust.		43.0
		27	Noon	-	-			47.7					38.0
		-	3 p.m.	-	-	S	8.0	46.7	+1.1	10	Cust.		37.0
		-	9 p.m.	-	-	S	7.0	48.2	+0.2	10 *	Cust.		38.5
		-	Mnt.	-	-	SSW	7.0	49.2		10 *	Cust.		39.5
		28	Noon	81°7'	54°1	SSE	4.0	51.2	-2.0	10	Str.		41.5
		-	9 p.m.	-	-	SSW	4.0	48.6	-3.3	10	Cust.		38.9
		29	Noon	-	-	ESE	7.0	43.2	-2.0	10	Cust.		33.5
		-	6.30 p.m.	-	-	E	9.0	36.7	-2.0	10 *	Str.		27.0
		30	2 a.m.	-	-	NE	10.0	33.7	-2.0	10 *	Str.		24.0
		-	2 p.m.	-	-	WNW	12.0	43.2	-2.0	10 *	Str.		33.5
		-	7.30 p.m.	-	-	WNW	13.0	46.7		10 *	Str.		37.0
		31	Noon	-	-	WSW	5.0	53.2		10	Cust.		43.5
		-	2 p.m.	-	-	WSW	3.0	53.5	-0.9	10	Cu.		43.8
		-	10 p.m.	-	-	WSW	0.5	52.7	-2.0	10	Cust.		43.0
		-	Mnt.	-	-		0	52.7		10	Cust.		43.0
	June	1	6 a.m.	-	-	N	8.0	50.2		10 *	Str.		40.5
		-	8 a.m.	-	-	NNE	10.0	47.7		10 *	Str.		38.0
		-	1 p.m.	81°5	54°2	ESE	7.0	42.2	-0.5	10	Cust.		32.5
		-	6 p.m.	-	-	SSW	9.0	34.0		10 *	Str.		24.3
		-	8 p.m.	-	-	WSW	9.0	34.7		10 *	Str.		25.0



1 Year	2 Month	3 Day	4 Hour	5 Lat.	6 Long.	7 Wind		9 Atm. Press. mm.	10 Air- Temp. C°	12 Cloud		13 Remarks	14 Read. of Ane- roid
						Dir. true.	Vel. m. p. s.			Am.	Form.		
1896	June	2	5 a.m.	-	-	WSW	14.0	741.7		10*	Cust.		732.0
		-	4 p.m.	-	-	WSW	8.0	54.0	- 0.5	6	Cu.		44.3
		-	6.30 p.m.	-	-	WSW	7.0	54.4		5	Cu.		44.7
		-	9 p.m.	-	-	WSW	7.0	55.7		10	Cu.		46.0
		3	Noon	81° 5'	-	W	4.0	61.2	- 1.5	5	Cu.		51.5
		-	9 p.m.	81° 0'	54° 1'	NNW	6.0	63.7		10	Cust.		54.0
		4	2 a.m.	-	-	N	6.0	64.7	- 3.8	10	Str.		55.0
		-	4 a.m.	-	-	N	6.0	64.7		6	Cicu.		55.0
		-	4 p.m.	80° 9'	53° 9'	N	7.0	64.9	- 2.7	10	Cust.		55.2
		5	8 a.m.	80° 5'	53° 8'	NNE	6.0	64.9	- 1.5	10	Cust.		55.2
		6	1 a.m.	80° 8'	53° 7'	NNE	6.0	62.7		10	Cust.		53.0
		-	6 a.m.	80° 8'	53° 6'	NNE	6.0	61.2	- 3.0	10	Cust.		51.5
		-	Noon	80° 8'	53° 4'	WNW	7.0	60.2		8	Cu.		50.5
		-	7 p.m.	80° 7'	53° 3'	NNE	6.0	59.4		10	Cu.		49.7
		-	11 p.m.	80° 7'	53° 2'	NNE	5.0	59.5		10	Cust.		49.8
		7	2 p.m.	80° 39'	53° 0'	NNE	5.0	57.0		4	Cicu.		47.3
		-	6.30 p.m.	-	-	NNE	6.0	56.6	- 2.4	10	Cust.		46.9
		8	8 a.m.	80° 5'	53° 1'	NNE	10.0	56.7	- 3.4	10*	Str.		47.0
		9	12.30 a.m.	-	-	NNE	8.0	56.6		10*	Str.		46.9
		-	4 a.m.	80° 26'	52° 2'	NNE	7.0	56.6	- 0.5	10	Str.		46.9
		-	7 p.m.	80° 17'	52° 3'	NNE	6.0	59.2	+ 1.0	9	Cicu.		49.5
		10	5 p.m.	-	-	NNE	8.0	61.2	+ 0.8	10	Cist.		51.5
		11	8 a.m.	80° 2'	52° 2'	NNE	8.0	60.7	- 2.5	0			51.0
		-	Mnt.	-	-	NNE	6.0	63.5	- 2.9	0			53.8
		12	6 a.m.	79° 58'	51° 7'	NNE	4.0	63.7	- 1.8	3	Cl.		54.0
		-	11 p.m.	79° 52'	51° 2'	N	1.0	64.6	+ 0.8	5	Cl.		54.9
		13	9 p.m.	-	-	N	4.0	65.7	- 0.9	3	Cl.		56.0
		14	10.30 p.m.	79° 53'	50° 5'	N	2.0	64.2	- 2.6	10	Str.		54.5
		15	Noon	79° 9'	50° 2'	N	1-2	64.2	- 2.2	10	Cust.		54.5
		16	3 a.m.	79° 9'	50° 1'	NNE	1.0	63.4	- 5.0	10	Str.		53.7
		-	10 p.m.	79° 9'	50° 0'		0	61.7	- 4.1	10	Str.		52.0

Professor NANSEN's observations at the winter-hut may, I believe, be of service in furnishing data for the climatology of Franz Joseph's Land. The observations certainly lack the regularity of a normal meteorological station, and as we have seen, there have been some difficulties about the determination of the errors of the instruments; but the observations have been faithfully made and on a spot of the earth not previously visited by man for any length of time. I have therefore thought it well worth while to work out the following climatological Table.

The mean pressure for each day was computed as the mean of the daily observations. The amount of cloud, and velocity of the wind for each month are the direct means of the observations in the Table above.

The temperature-observations of the Table were plotted on ruled paper, and a curve drawn through the points, regard being taken to the noted minimum-temperatures and the most probable daily course of the temperature. From this curve the temperature was taken out for every day at 2 a. m., 8 a. m., 2 p. m. and 8 p. m. and from them the monthly mean was computed as their direct mean.

The frequency of the winds from the 8 points, and of Calms, is given as a percentage of the total number of wind-observations in each month.

# NANSEN'S WINTER-HUT — FRANZ JOSEPH'S LAND.

Lat. 81°13' N. Long. 55°20' E. Height 7—8 metres.

Year	Month	Atm. Press. Stand. Grav. Sea-Level Mean	Temperature of the Air. C°.			Amount of Cloud	Number of Days with Pre- cipitation
			Mean monthly	Max. Date	Min. Date		
		mm.					
1895	September	754.6	— 6.4	+ 4.8 12.	—20.2 25.	6.9	8
—	October	62.0	— 17.6	—11.6 2.	—25.2 4.	6.2	4
—	November	53.8	— 24.2	—11.7 12.	—36.0 23.	5.4	9
—	December	57.5	— 24.1	—10.0 12.	—37.7 31.	4.8	8
1896	January	50.6	— 28.4	—12.2 18.	—40.8 1.	6.1	12
—	February	47.5	— 23.5	— 1.0 22.	—37.3 19.	6.5	11
—	March	64.6	— 12.3	— 2.1 9.	—32.5 1.	7.9	15
—	April	63.5	— 13.2	— 2.6 9.	—25.0 16.	3.9	11

## WIND.

Year	Month	Frequency. Per Cent.									Velocity m. p. s.			Gales Days
		N	NE	E	SE	S	SW	W	NW	Calm	Mean	Max.	Date	
1895	September	3	12	9	31	16	1	10	8	10	3·7	10	21.	0
—	October	10	11	29	29	5	0	4	4	8	3·7	12	11.—13.	0
—	November	17	15	13	19	9	3	5	8	11	3·0	12	3.6.	0
—	December	9	7	27	25	2	2	4	7	17	2·6	16	10.	2
1896	January	20	15	16	24	12	0	1	7	5	4·8	18	7.	2
—	February	16	18	6	12	18	4	3	3	20	4·4	15	2.	1
—	March	2	2	18	21	13	22	11	6	5	3·9	8	6.	0
—	April	4	27	30	20	6	1	1	1	10	4·4	10	7.26.	0

The pressure of the air was highest, 780·3 mm., on the 10<sup>th</sup> March and lowest, 722·4 mm. on the 18<sup>th</sup> February 1896.

The temperature of the air was above 0° on the 9<sup>th</sup> and the 12<sup>th</sup> September and below — 40° on the 1<sup>st</sup>, 2<sup>d</sup> and 11<sup>th</sup> January.

The situation of the winter-hut under a steep cliff facing SW, probably gives many of the winds from N, NE and E a character of a *Föhn*, which may have a certain influence in making the mean temperature higher than in a more open situation. This seems particularly to be the case in November, January, February and April with their frequent winds from N, NE and E.

The precipitation fell as snow, except on the 3<sup>rd</sup> and the 12<sup>th</sup> September, when some rain fell.

The windward side of the wind-rose lay thus (see p. 285):

	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
N		5	8	7	8			
NE	11	11	12	5	15	14		26
E		25	8	23	15	3	7	29
SE	23	25	11	18	17	9	15	19
S	13					2	11	2
SW							20	
W	1							
NW								
Res.	SE 31	E 51	ENE 28	E 40	ENE 37	E 20	S 35	E 61

The resultant direction and its amount are shown in the last line. The prevailing winds are chiefly easterly. The station lay on the north side of the Atlantic barometrical trough (p. 572).

The mean velocity of the wind is estimated a little less than the measured velocity at the Fram (p. 309).

Gales with estimated velocities of 15 metres per second and upwards to 18 metres were experienced on two days in December, on two days in January, and on one day in February. The highest velocity measured at the Fram was 18 m. p. s. (p. 310).

In order to see how the observations at the winter-hut stand in relation to those of the Fram and at Cape Flora<sup>1</sup> (Lat. 78° 55' N; Long. 48° 40' E), I have put together the following Table.

	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	
Fram Lat. . . . .	85° 1'	85° 29'	85° 45'	85° 23'	84° 59'	84° 22'	84° 6'	84° 15'	p. 252
- Long. . . . .	78 53	76 48	64 59	50 42	40 16	24 30	24 18	16 21	—
ATMOSPHERIC PRESSURE.									
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	
Fram . . . . .	753.8	765.5	755.9	761.3	755.4	748.9	760.4	761.9	p. 395
Winter-Hut . . .	54.6	62.0	53.8	57.5	50.6	47.5	64.6	63.5	
Cape Flora . . . .	53.7	61.1	53.9	55.9	50.2	48.3	65.4	62.4	
PREVAILING WINDS.									
Fram . . . . .	SW	SE	NE	ENE	NE	NNW	SSE	ENE	p. 315
Winter-Hut . . .	SE	E	ENE	E	ENE	E	S	E	
Cape Flora . . . .	ENE	E	NE	ENE	NE	ENE	ESE	E	
TEMPERATURE OF THE AIR.									
Fram . . . . .	-9.7	-21.2	-30.9	-32.6	-37.3	-34.7	-18.9	-18.2	p. 483
Winter-Hut . . .	-6.4	-17.6	-24.2	-24.1	-28.4	-23.5	-12.3	-13.2	
Cape Flora . . .	-4.6	-13.7	-22.1	-21.4	-28.5	-21.9	-12.9	-12.7	

<sup>1</sup> A Thousand Days in the Arctic, by FREDERICK G. JACKSON; pp. 823 to 830.

By means of these observations, introduced into the "Daily Synoptic Weather-Charts" published by the Deutsche Seewarte and the Danish Meteorological Institute, it may be possible to extend the study of the weather for the period in question to the high latitudes of the Fram north of Franz Joseph's Land.

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## OBSERVATIONS IN EAST-SPITZBERGEN 1894—95

made by Mr. M. EKROLL.

In the summer of 1894 Mr. MARTIN EKROLL made a voyage with his schooner, *Willem Barendtz* from Norway to Spitzbergen, and wintered on the east side of the Storfjord in a place situated in latitude  $77^{\circ}30'$  N and  $20^{\circ}55'$  E, from August, 1894, to July, 1895. Meteorological observations were made on board from the beginning to the end of the voyage. During the winter another station was established at the ANDERSON'S ISLAND in the Storfjord, lat.  $78^{\circ}20'$ , long.  $20^{\circ}44'$  E where observations of temperature, wind and weather were made.

The observations have been worked up by the Norwegian Meteorological Institute. The result for the winter stations are given in the following Tables.<sup>1</sup> They may be useful for comparison with those from Cape Flora and from the Fram.

The observations of the atmospheric pressure were made with an aneroid, whose corrections were found by means of observations made on the coast of Norway both at the start and at the return of the expedition, and compared with the observations made simultaneously at the coast-stations of the Norwegian Meteorological Institute. The Table gives the corrected values.

The temperature of the air was observed with mercury and spirit centigrade thermometers.

The amount of cloud is given according to the scale, 0 = clear and 4 = overcast.

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<sup>1</sup> The daily observations are deposited at the Norwegian Meteorological Institute, and copies of them may be had on application.

The frequency of the winds is given as a percentage of the total number of observations in each month.

The force of the wind according to the scale, 0 = calm to 6 = hurricane.

"*Willem Barendtz*". Lat. 77° 30' N. Long. 20° 55' E.

	Atm. Pressure Stand. Gr. Sea-Level Mean	Temperature of the Air. C°						Cloud 0-4 Mean	Number of Days with			
		8 a.m.	2 p.m.	8 p.m.	Mean	Obs. Max.	Obs. Min.		Rain	Snow	Rain and Snow	Fog
mm.												
1894. September.	764.0	- 0.9	- 0.9	- 2.1	- 1.3	+10.0	- 9.0	2.6	0	8	-	0
October . .	58.7	-12.1	-11.5	-12.1	-11.9	+ 1.0	-22.0	2.3	1	7	-	0
November .	57.1	-11.9	-11.7	-12.2	-11.9	+ 1.0	-28.0	3.0	3	7	-	2
December .	51.5	-22.7	-23.6	-23.2	-23.2	- 4.6	-39.3	2.0	0	13	-	0
1895. January . .	58.3	-18.9	-18.3	-18.7	-18.6	- 1.0	-39.0	2.7	0	12	-	0
February .	68.3	-25.4	-26.2	-26.0	-25.9	- 8.0	-40.0	1.9	0	6	-	7
March . . .	61.2	-20.5	-21.1	-21.3	-20.9	- 5.0	-35.0	2.2	0	12	-	2
April . . . .	59.2	-14.0	-13.8	-13.4	-13.7	0.0	-39.0	2.7	0	14	1	0
May . . . . .	59.4	- 1.6	- 3.3	- 3.4	- 2.8	+ 9.0	-12.5	2.6	2	11	1	0
June . . . . .	60.3	+ 1.9	+ 1.3	+ 1.2	+ 1.5	+ 5.0	- 8.0	1.9	0	2	4	0

WIND.

	Frequency. Per Cent.										Force 0-6
	N	NE	E	SE	S	SW	W	NW	Calm.		
1894. September.	22	8	3	20	5	9	0	9	24	1.6	
October . .	10	41	13	14	10	3	0	2	7	2.5	
November .	3	33	9	9	17	15	1	0	13	1.7	
December .	4	34	7	10	1	0	3	3	38	1.4	
1895. January . .	0	29	3	0	28	3	1	1	35	1.3	
February . .	4	25	0	0	13	7	0	1	50	0.3	
March . . .	15	25	2	5	11	3	0	0	39	1.1	
April . . . .	8	21	7	8	20	4	3	2	27	1.3	
May . . . . .	13	14	7	19	13	9	4	11	10	2.3	
June . . . . .	19	12	4	19	32	4	0	0	10	2.2	

*Anderson's Island.* Lat. 78° 20' N. Long. 20° 44' E.

		Temperature of the Air. C°				Frequency. Per Cent.											Force
		8 a.m.	2 p.m.	8 p.m.	Mean	Obs. Max.	Obs. Min.	N	NE	E	SE	S	SW	W	NW	Calm.	
1894.	September .	- 3°5	- 2°3	- 3°2	3°0	+ 7°7	- 8°8	5	34	1	9	13	10	12	10	6	2·6
	October . .	- 13°5	- 13°3	- 13°3	- 13°4	- 0°2	- 23°4	26	31	10	9	17	0	0	5	2	2·6
	November .	- 11°3	- 11°6	- 11°3	- 11°4	+ 1°7	- 21°2	23	21	14	4	26	5	2	2	3	2·6
	December .	- 22°7	- 23°2	- 23°2	- 23°0	- 3°8	- 32°0	8	26	31	9	5	4	2	4	11	2·4
1895.	January . .	- 20°7	- 20°5	- 20°2	- 20°5	- 2°4	- 36°8	10	19	17	5	15	2	0	1	31	1·9
	February . .	- 24°3	- 25°1	- 25°6	- 25°0	- 4°7	- 37°4	15	20	10	13	7	11	0	2	22	1·8
	March . . .	- 24°8	- 22°8	- 24°3	- 24°0	- 5°5	- 37°0	7	16	27	8	12	6	4	1	19	2·0
	April . . . .	- 17°6	- 14°5	- 15°6	- 15°9	+ 0°5	- 37°0	11	16	17	6	21	0	1	2	26	2·0
	May . . . . .	- 5°0	- 3°2	- 3°7	- 4°0	+ 6°0	- 14°0	25	6	6	3	28	1	1	2	28	2·0



## INDEX.

- Anemometer, 3.
- Annual migration of isotherm of 0° C., 575.
- Annual period of amount of cloud, 518, 608.
- - atmospheric pressure, 395.
  - - calms, 310.
  - - fog, 537, 608.
  - - forms of clouds, 522.
  - - precipitation, 527, 608.
  - - relative humidity, 508, 607.
  - - temperature of air, 483, 606.
  - - - at the North Pole, 574.
  - - - of polar ice, 561.
  - - tension of vapour, 502, 607.
  - - wind's direction, 279.
  - - - velocity, 309, 602.
- Aperiodic range of air-temperature, 482.
- Atmic wind-roses, 503.
- Atmosph. pressure around the North Pole, 571.
- Baric wind-roses, 397.
- Barometers, 4, 609.
- Barometrical depressions, 577.
- - direction of motion of, 577, 583.
  - - lowest pressure in, 581.
  - - number of, 581.
  - - passing the Fram, 582.
  - - velocity of motion, 583.
  - - - wind, 583.
- Belts of Cirrus, 525.
- Calms, annual period, 310.
- diurnal period, 307.
- Change of pressure, 399.
- Cirrus-belts, 525.
- Climatological table, Winter-hut, 650.
- Cloud, 20, 511.
- Cloud, amount of annual period, 518, 608.
- - diurnal - 511, 514, 607.
  - Forms of, 520.
  - - annual period, 522.
  - - diurnal - 520.
  - Motion, 522.
  - Wind-roses, 519.
- Columns above Sun and Moon, 538.
- Compass, 3.
- Crow's nest, temperature of air, 497.
- Dark Season, diurnal period of pressure, 393.
- - of temperature, 472.
- Days with precipitation, 531.
- Diurnal period of calms, 307.
- - cloud, 511, 607.
  - - fog, 536, 608.
  - - forms of clouds, 520.
  - - fresh winds, 305.
  - - gales, 307.
  - - precipitation, 526, 608.
  - - pressure of air, 316, 390.
  - - relative humidity, 505, 607.
  - - temperature of air, 401, 471, 603.
  - - - dark season, 472, 603.
  - - tension of vapour, 499, 607.
  - - wind's direction, 274.
  - - wind's velocity, 290, 295, 299, 597-603.
- Dynamic wind-roses, 311.

Ekroll, 654.

Fog, annual period, 537, 608.  
 — diurnal period, 536, 608.  
 — number of days with, 537.

Gales, 307, 583.

Halo, solar and lunar, 538.

Hours of observation, 21.

Humidity, *see* Relative humidity.

Hygrometers, 15.

Ice, Temperature of polar, 540–569.

Ice-temperatures, 22.

Instruments, 3–22.

Isabnormals, temperature, 576.

Isobars around the North Pole, 571.

Isopleths, ice-temperatures, 567.

Isotherms around the North Pole, 573.

Journal of observations, Fram, 25–248.

— . — Sledge-journey, 617–649.

Latitude and Longitude of the Fram, 252.

“Lows”, 577–587.

Lunar halos, 538.

Maxima of pressure, 396.

— . temperature, 482, 486.

Mean temperature months, 483.

— — each day, 484.

— — five day —, 485.

Minima of pressure, 396.

— . temperature, 482.

Mock moons, 538.

Mock suns, 538.

Motions of clouds, 522.

Motion of “Lows”, 583–586.

Normal temperat. of air, latitude 90°–60°, 575.

North Pole, temperature, 574.

Observations, Fram, 25–248.

— Sledge journey, 617–649.

Optical phenomena, 538.

Periods, *see* annual and diurnal periods.

Position of the Fram, 21, 252.

Precipitation, 20.

— amount of, 535.

— annual period, 526, 608.

— diurnal period, 525, 608.

Pressure of air, 316–400, annual period, 395.

— . — diurnal period, 316.

— . — — — formulæ and  
constants, 392.

— . — duration of, in one day of pr.,  
534.

— . — maxima and minima, 396.

— . — Tables, 318–389.

— . — wind-roses, 397.

— . — wind-roses for change of, 399.

— . — number of days with, 531.

— . — probability of, 526.

— . — wind-roses, 528.

Radiation, thermal, 593.

Range of temperature, aperiodic, 482.

Relative humidity, annual period, 508.

— — diurnal — 505, 607.

— — wind-roses, 509.

Resultants, wind, 315.

Results, 249.

Seasons, 253.

Shadow of the earth, 594.

Ship's position, 21.

Sky, State of, 20.

Sledge-Expedition, 609.

Solar halos. 538.

State of the sea, 21.

Spitzbergen, 654.

Sunny season, 253.

Temperature of air, 401–498.

— . — above 0° C., 487.

— . — absolute Max. and Min.  
486.

— . — annual period, 483.

— . — aperiod. diurn. range, 482.

— . — below — 40° C., 487.

— . — diurnal period, 401,  
471, 603.

Temperature of air, diurn. period, dark season,  
472, 496.

— . — — — and cloud, 473.

— . — — — and wind-velocity, 478.

— . — — five-day means, 485.

— . — — interdiurnal variability  
488.

— . — — — duration  
of periods, 489.

— . — — in the crow's nest, 497.

— . — — mean for each day, 484.

— . — — monthly mean, Min. and  
Max., 482.

— . — — normal for latitudes  
90°—60°, 575.

Thermal wind-roses, 492.

Temperature of the polar ice, 22, 540.

— . — — annual period, 561.

— . — — isopleths, 567.

— . — — observations, 544.

— . — — variation with  
depth, 562.

Thermometers, 10, 612.

Twilight, 589, 594.

Tension of vapour, 499.

— . — — annual period, 502, 607.

— . — — diurnal — 499, 607.

Variability, temperature of air, 488.

Water-sky, 538.

Wind, 3.

— direction, 255.

— — annual period, 279.

— — constancy and change, 286.

— — diurnal period, 274.

— — frequency, 256.

— — — months, 268.

— resultants, months, 315.

Wind-roses, atmie, 503.

— baric, 397.

— change of pressure, 399.

— dynamic, 311.

— nephic, 519.

— relative humidity, 509.

— precipitation, 528.

— thermal, 492.

— windward side, 284.

Wind, velocity, annual period, 309.

— — diurnal — 290, 597.

— — — — and cloud, 295.

— — — — and velocity, 299.

— — — — of calms, 307.

— — — — of fresh winds, 305.

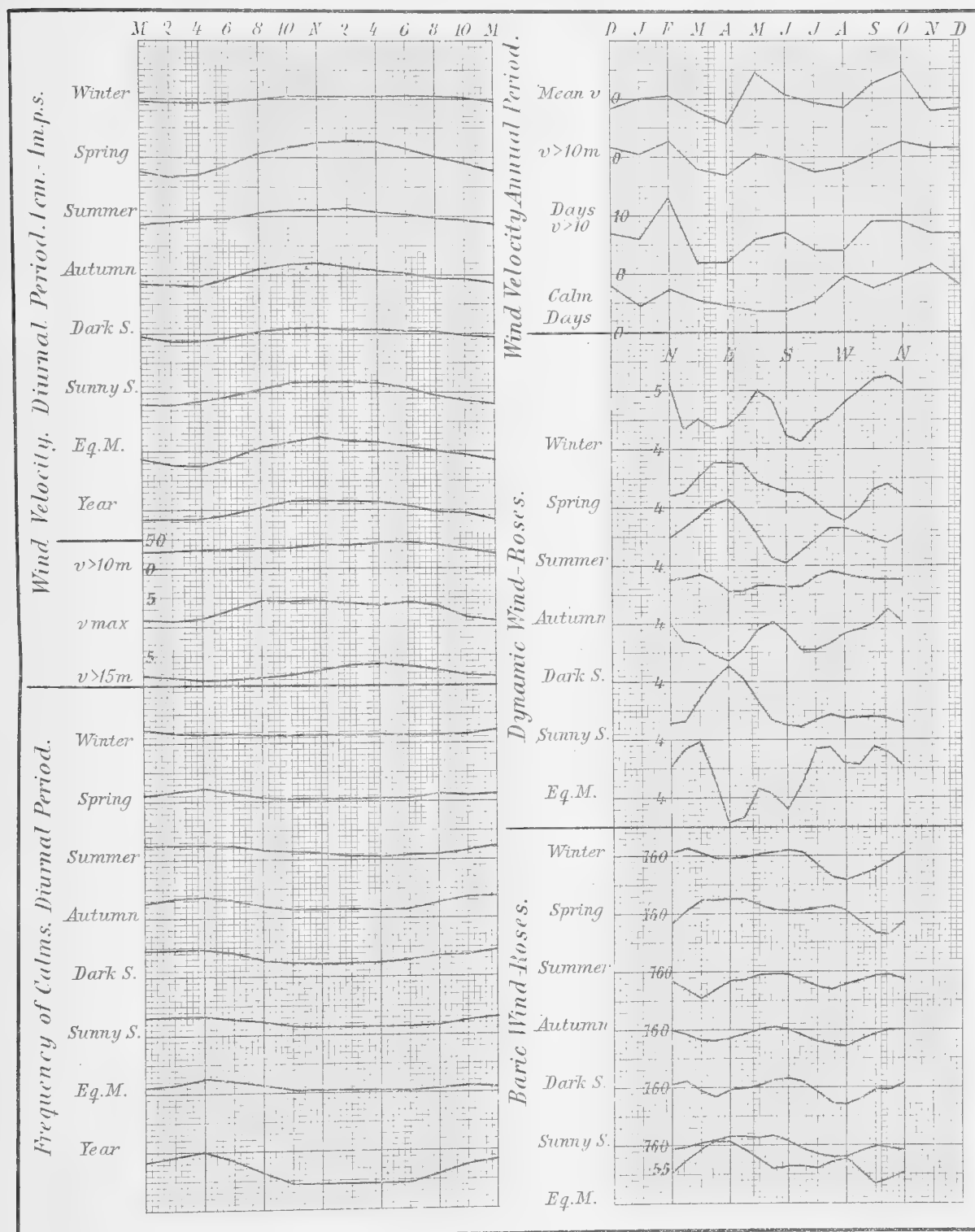
— — — — of gales, 307.

— — — in "Lows", 583.

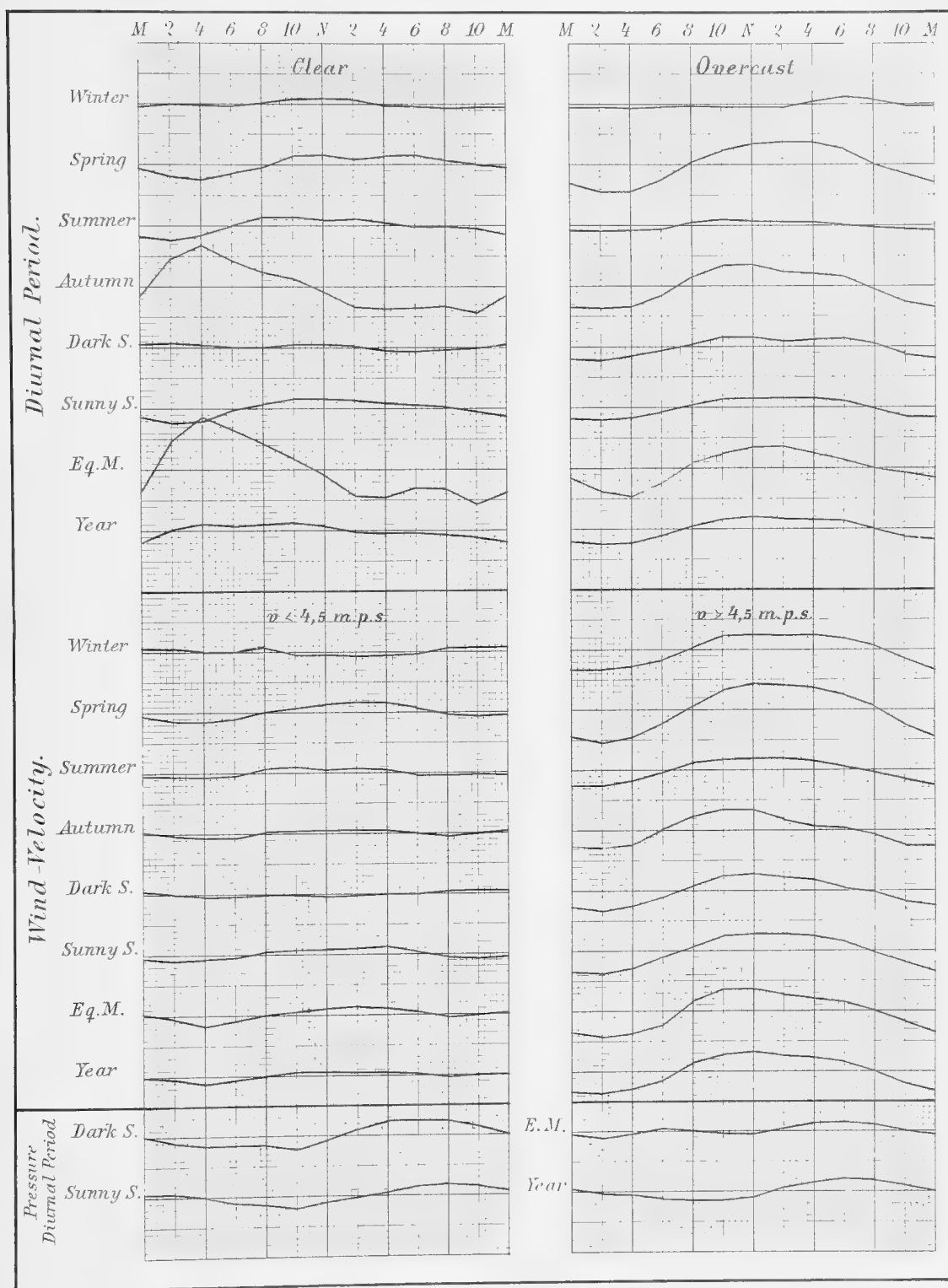
Winter-hut, observations, 625.

— climatological table, 650.



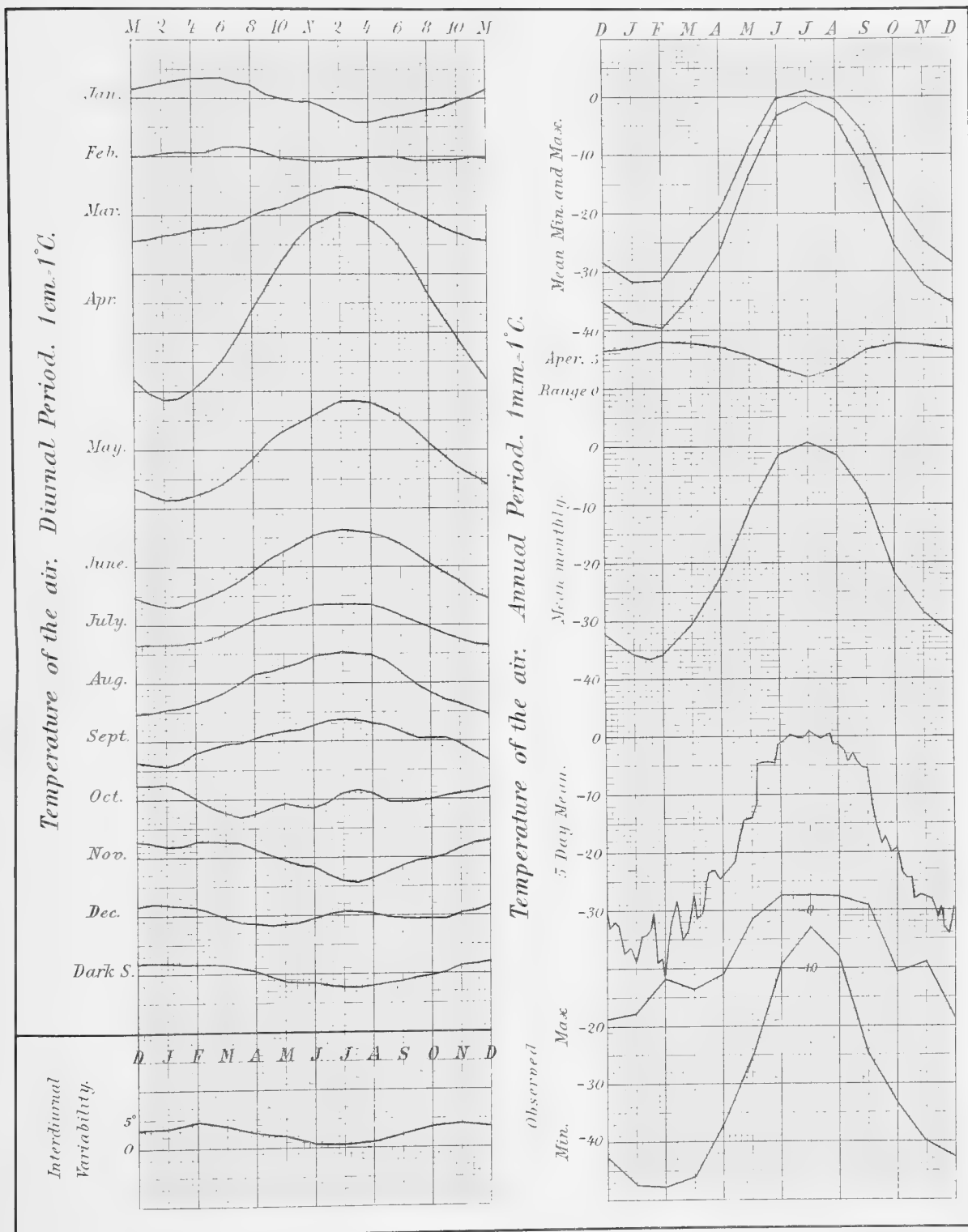




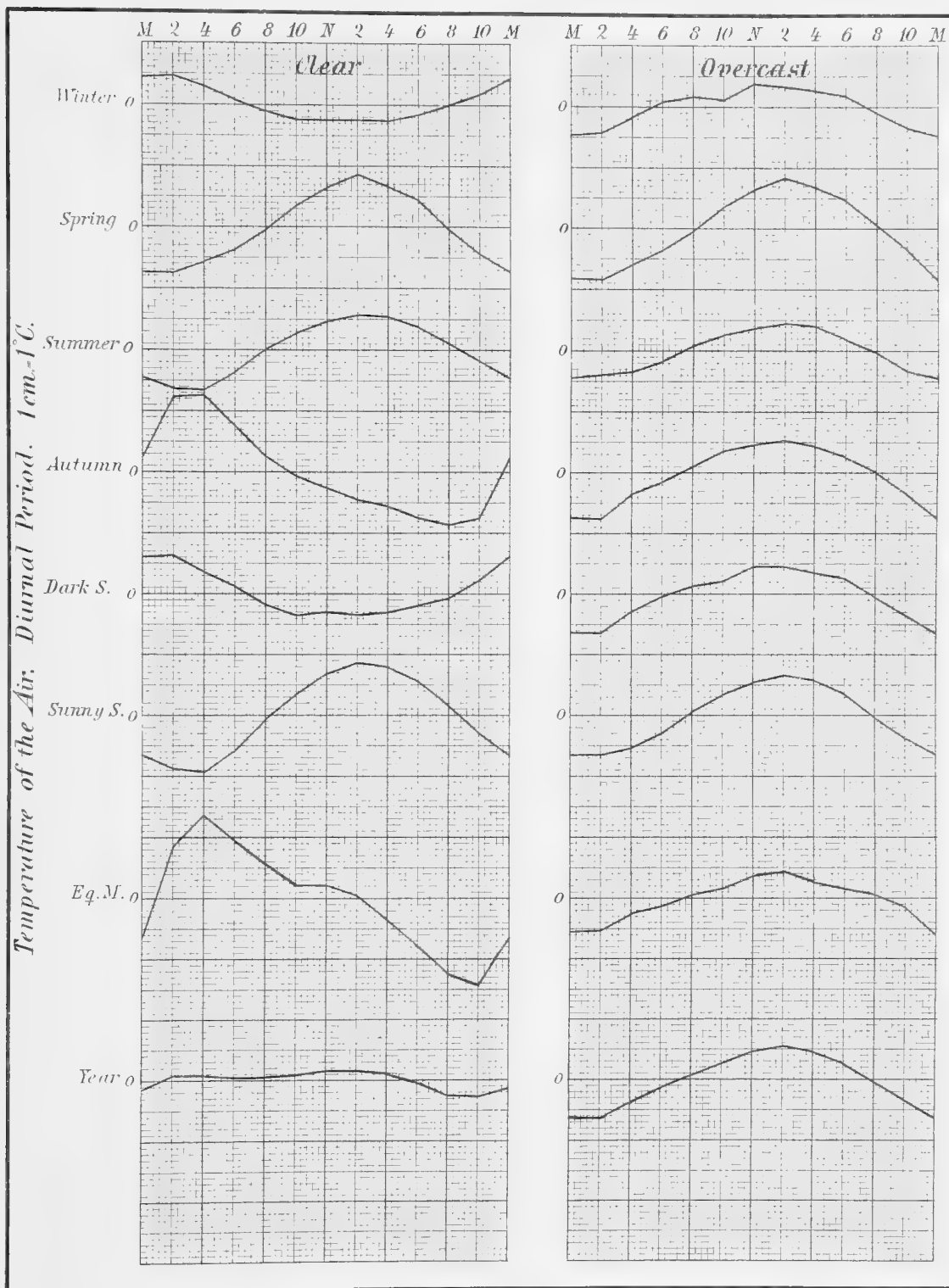






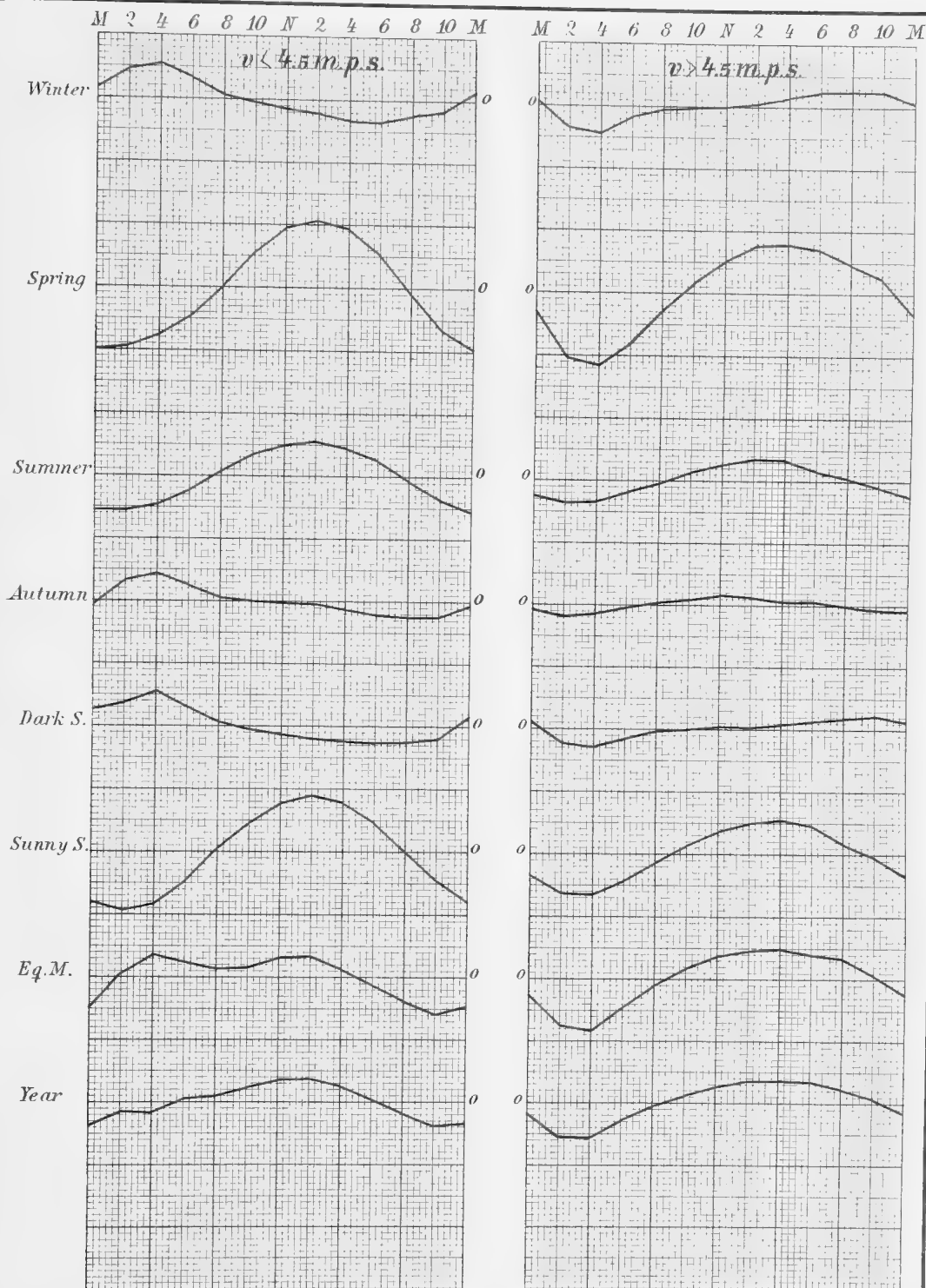




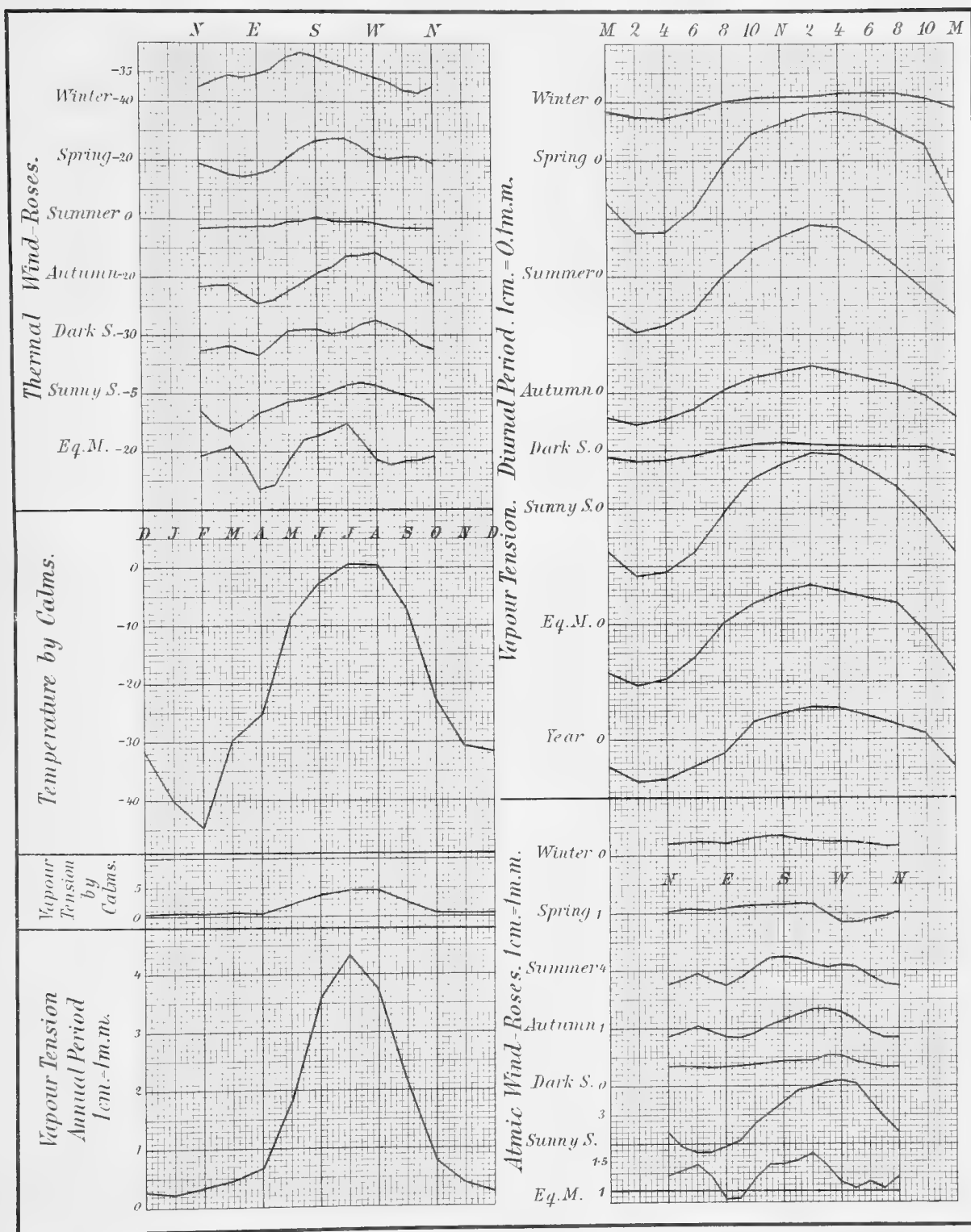




Temperature of the Air. Diurnal Period. 1 cm.-1°C.

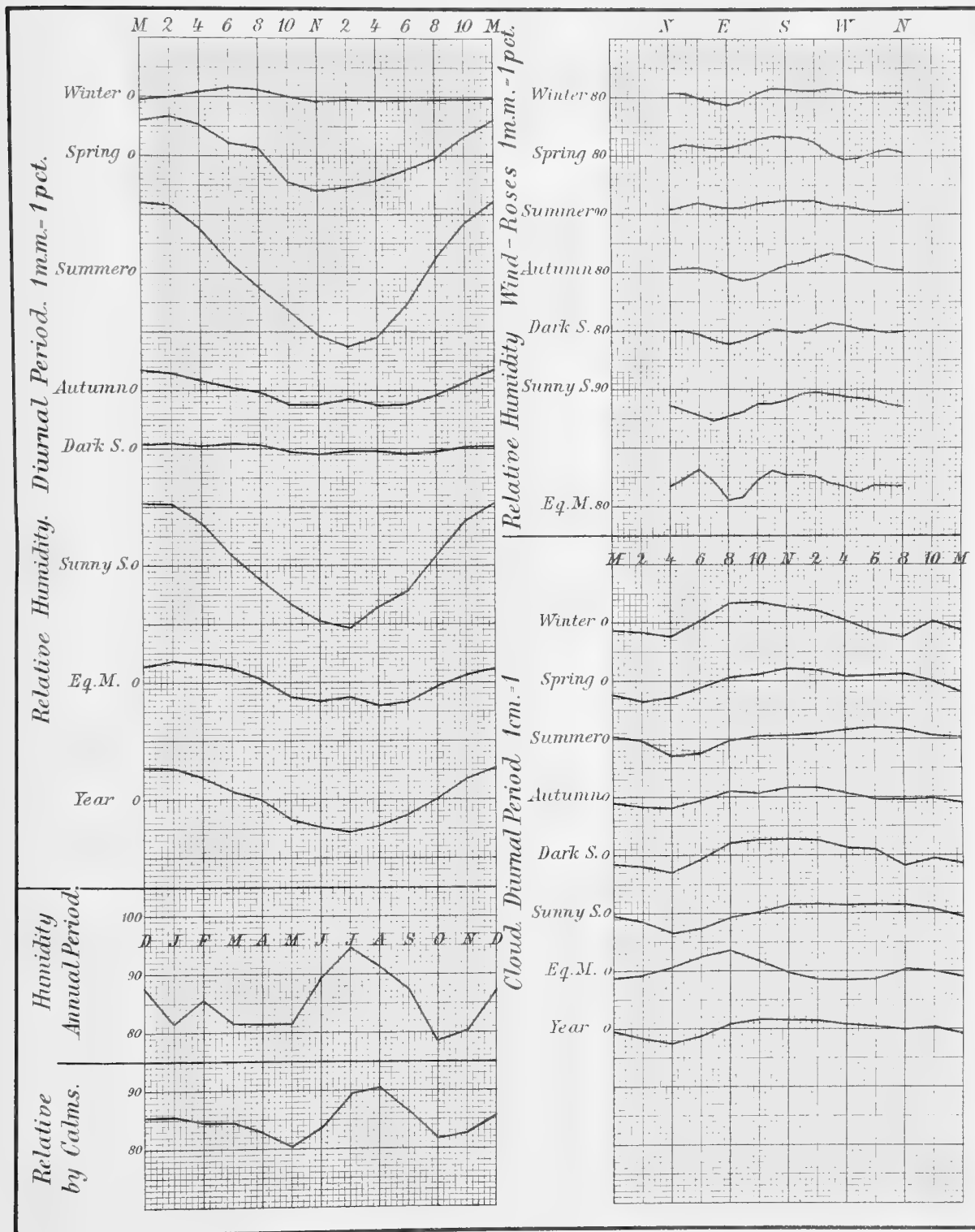




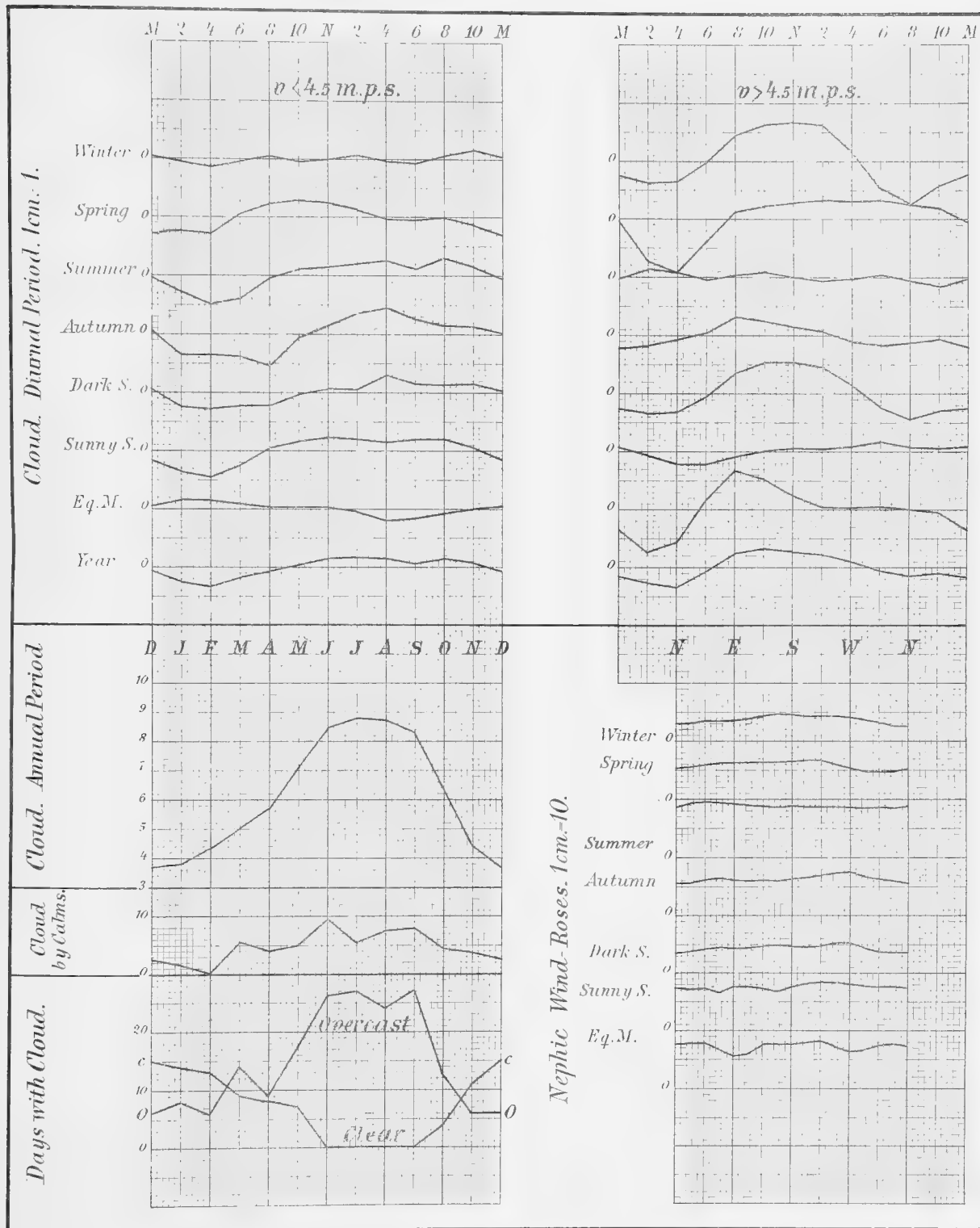












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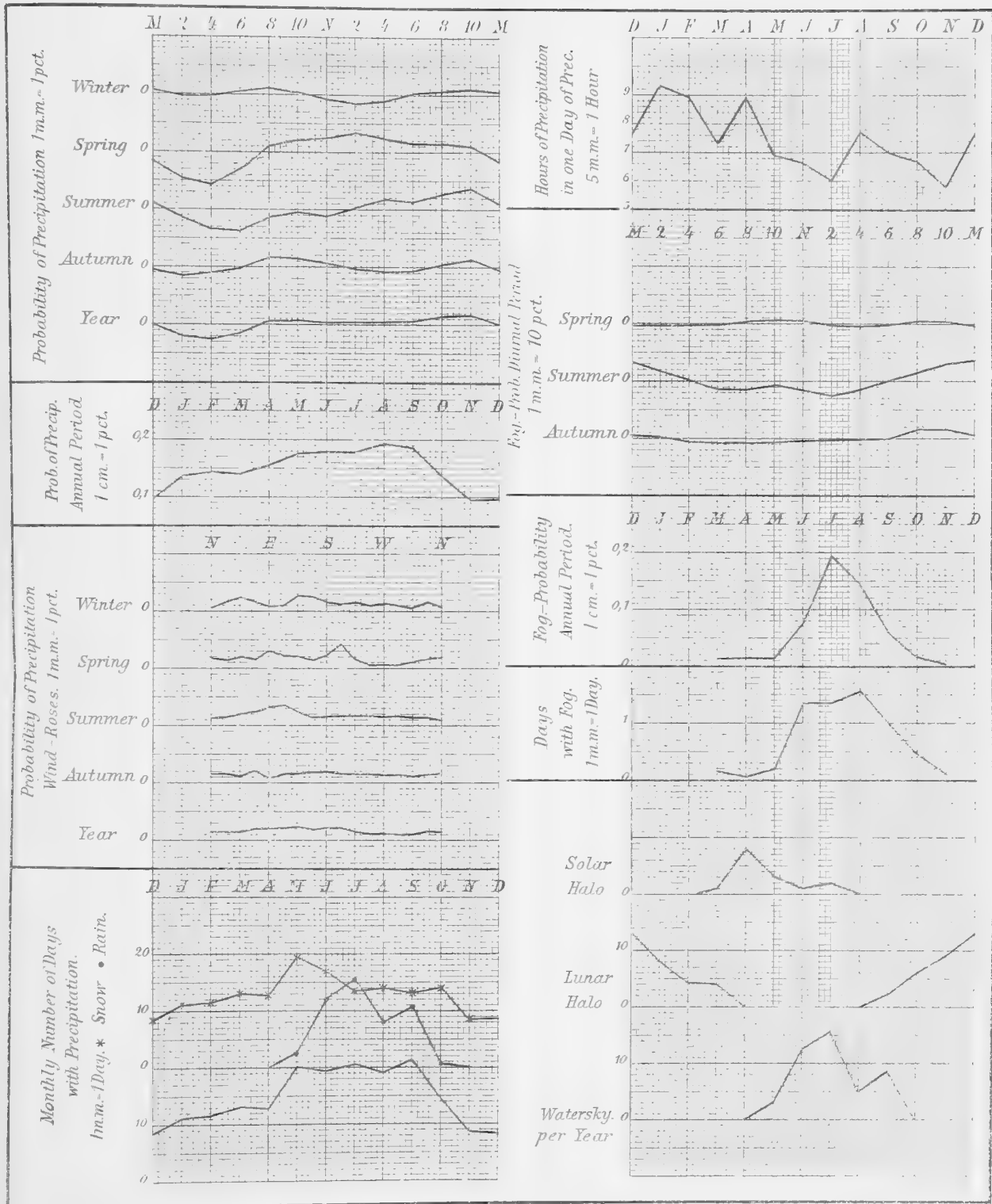
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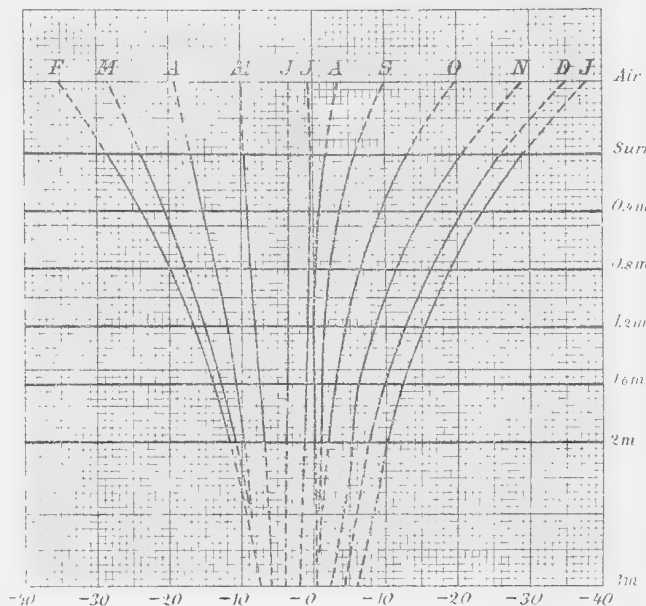
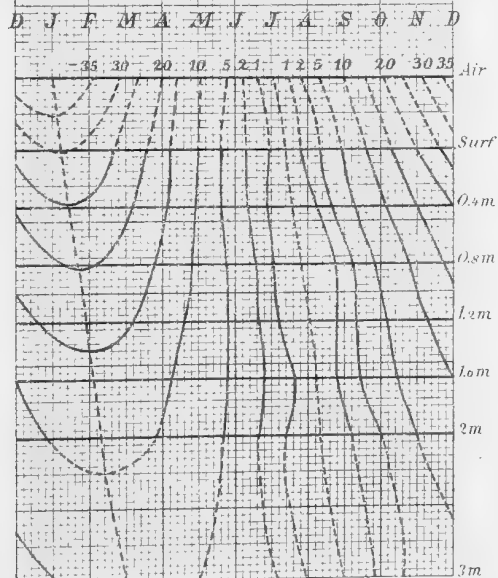
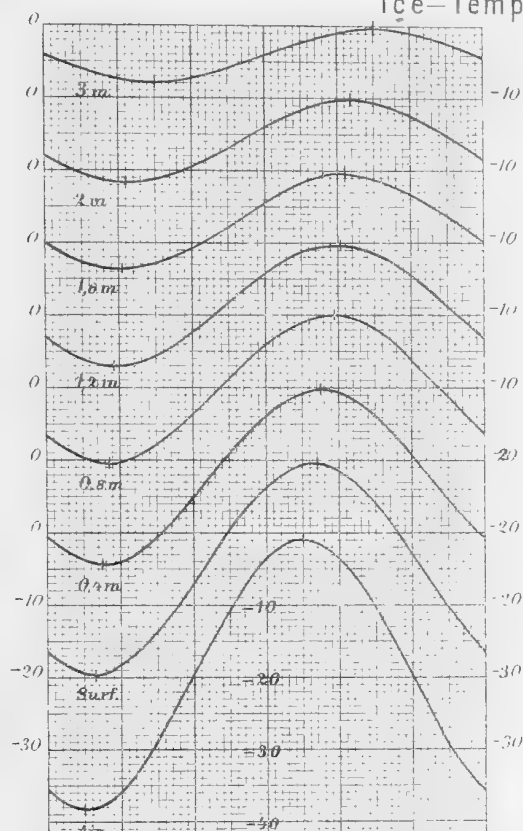
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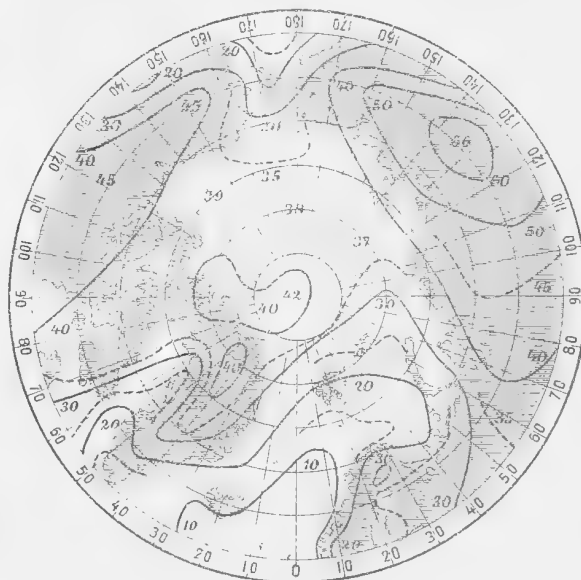


# Ice-Temperatures.



## Temperature of the Air.

### Annual Range

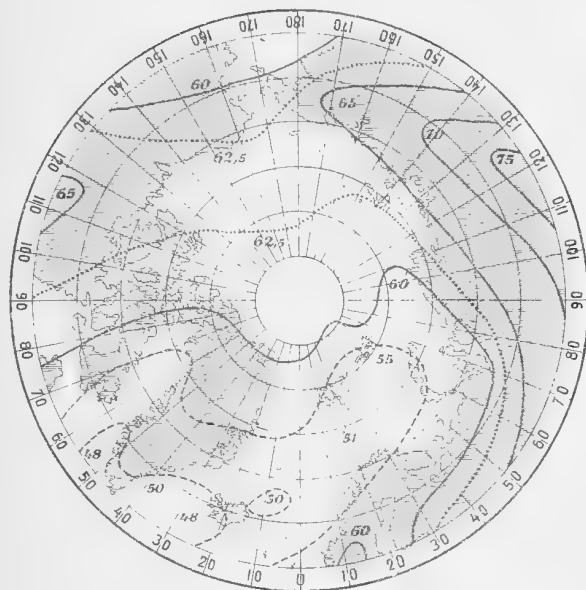




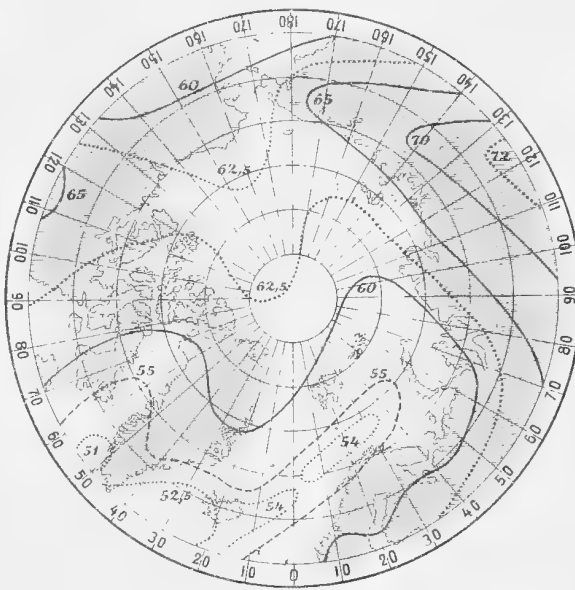


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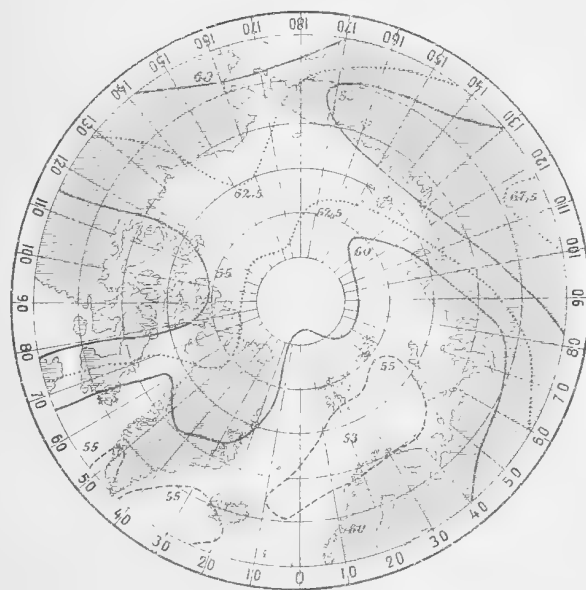
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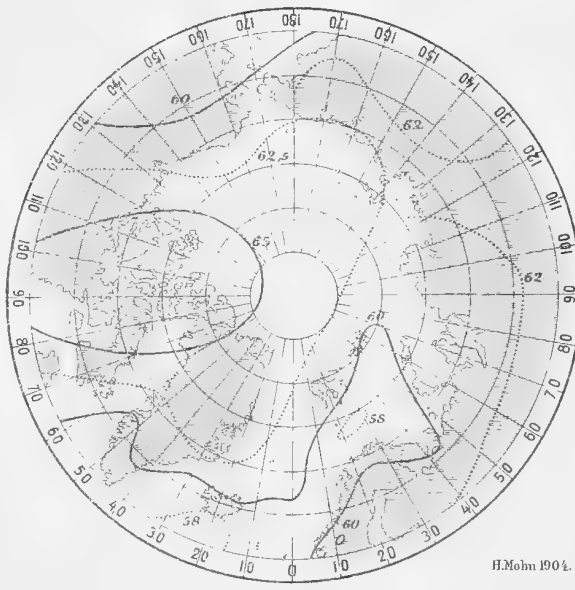
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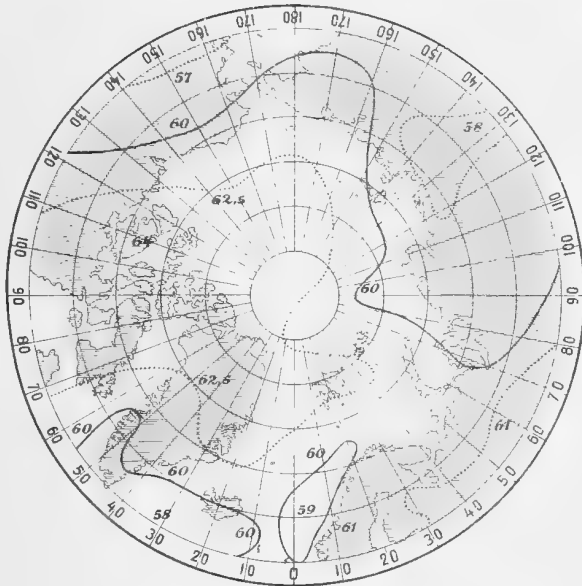


H.Mohn 1904.

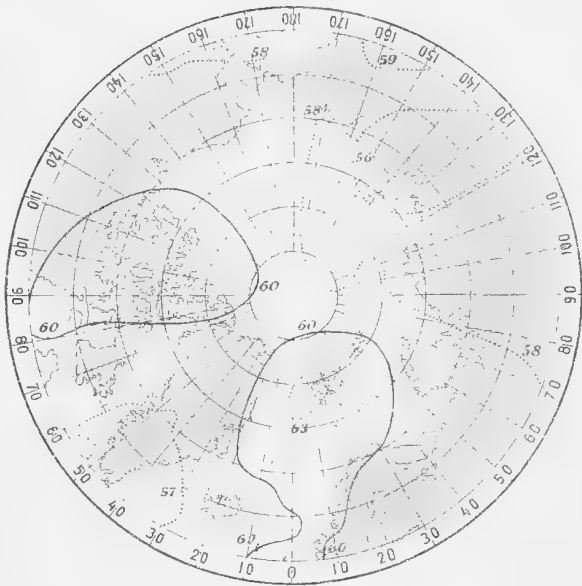


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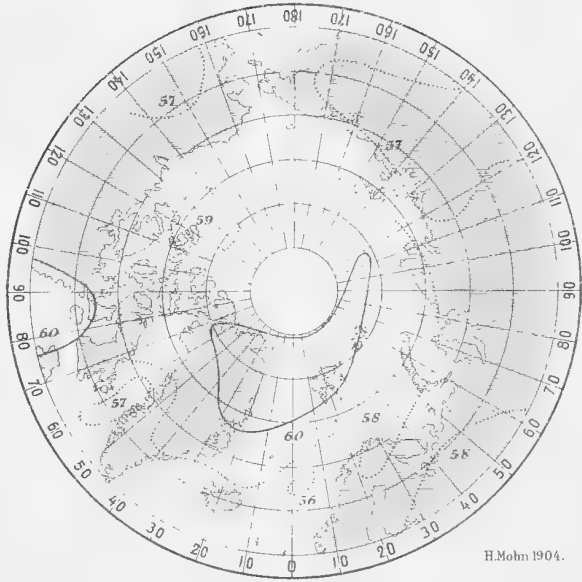
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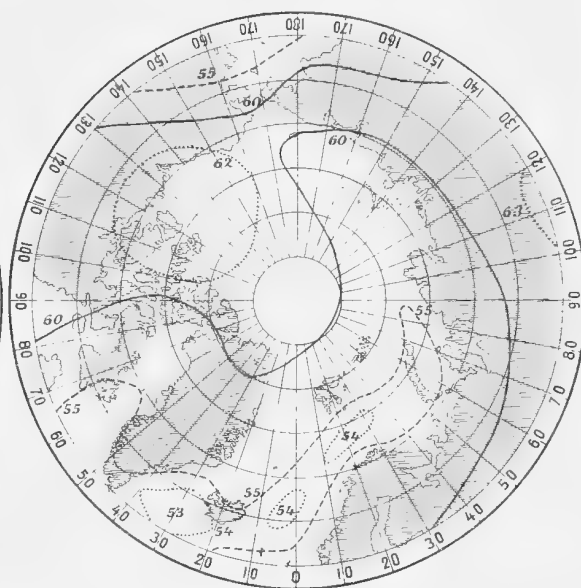
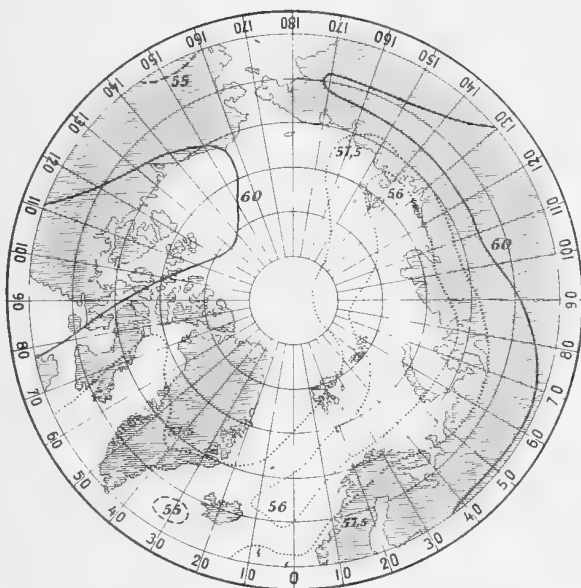
H. Mohn 1904.



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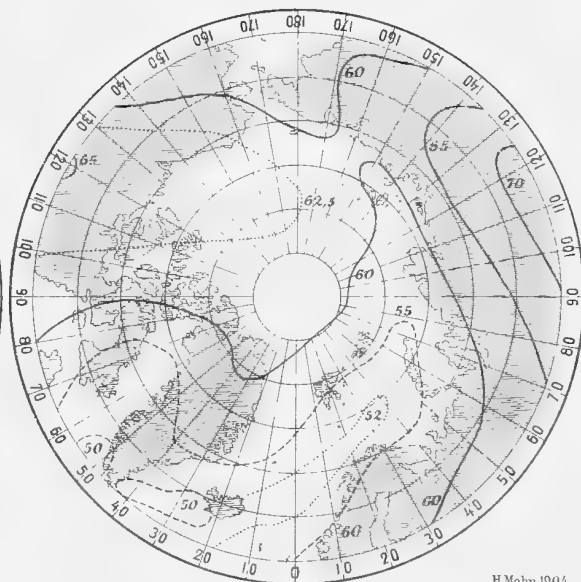
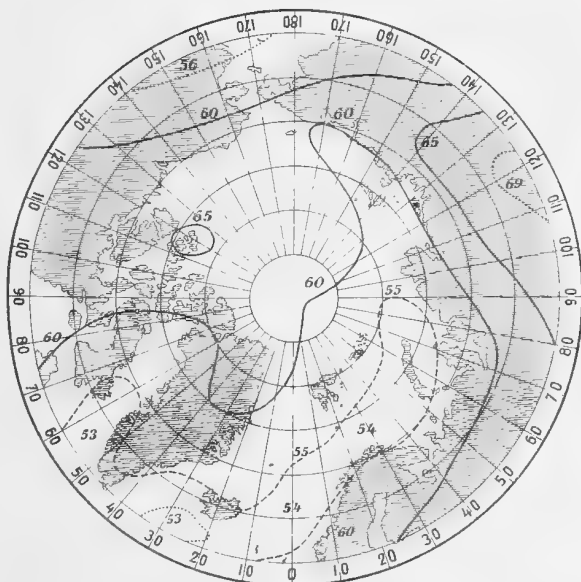
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H. Mohr 1904.



# Isotherms

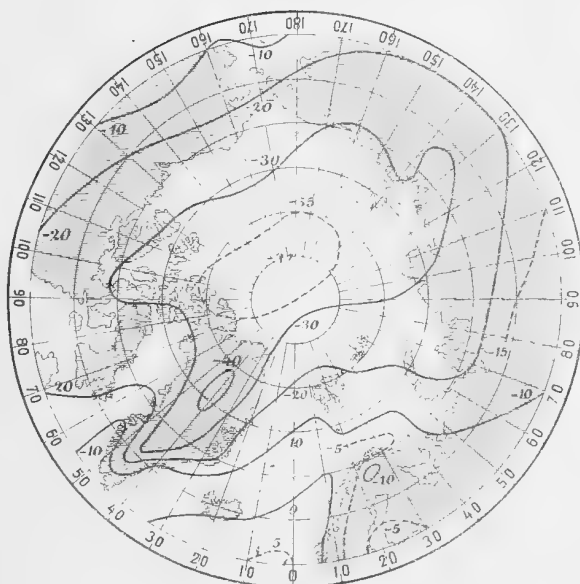
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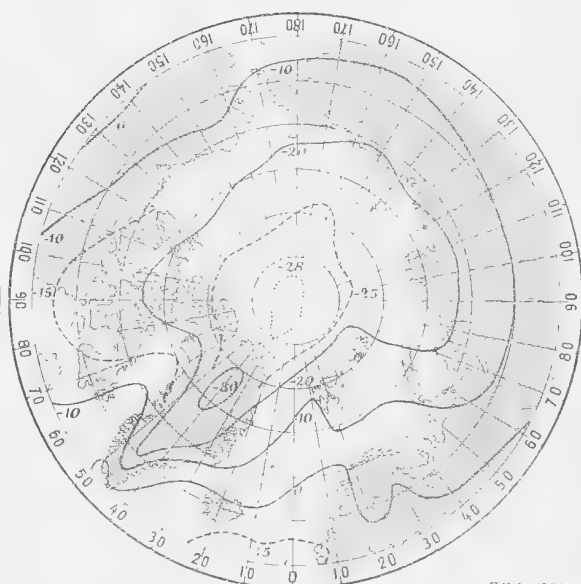
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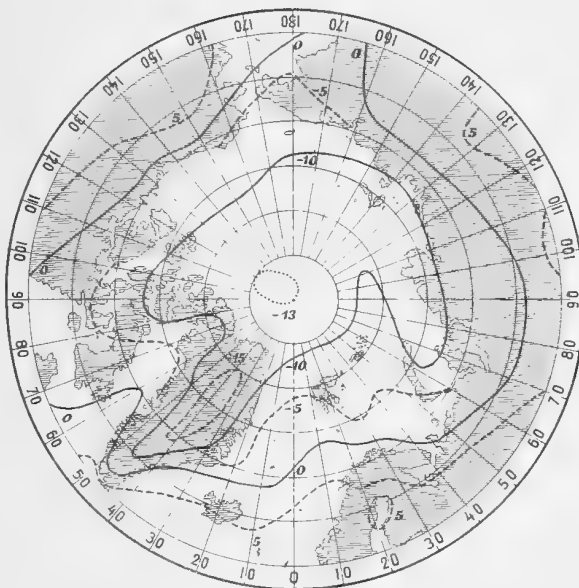
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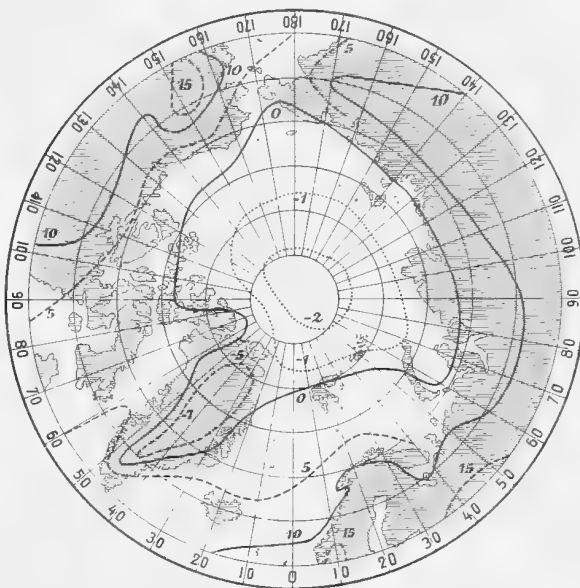


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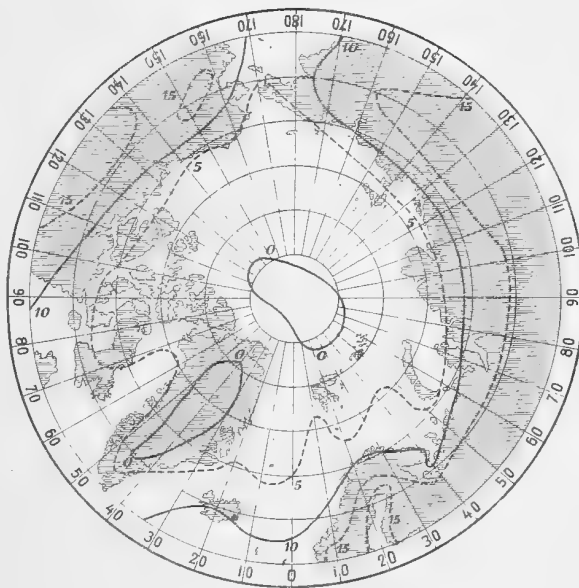
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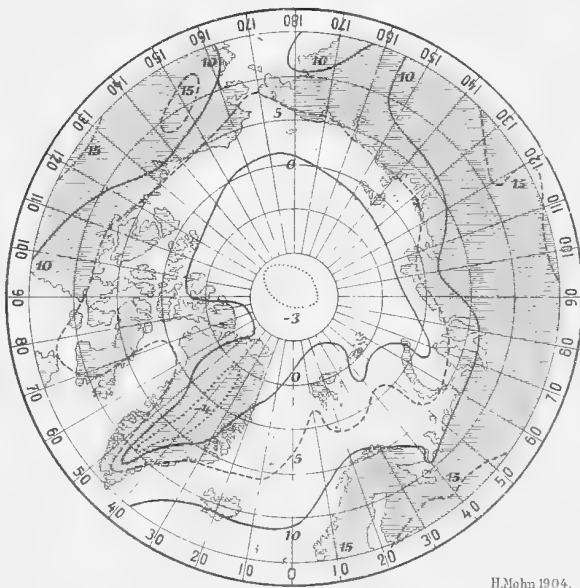
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H. Mohn 1904.

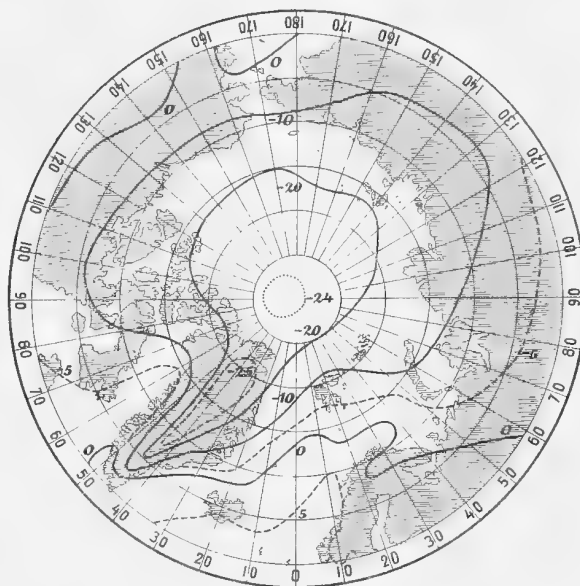


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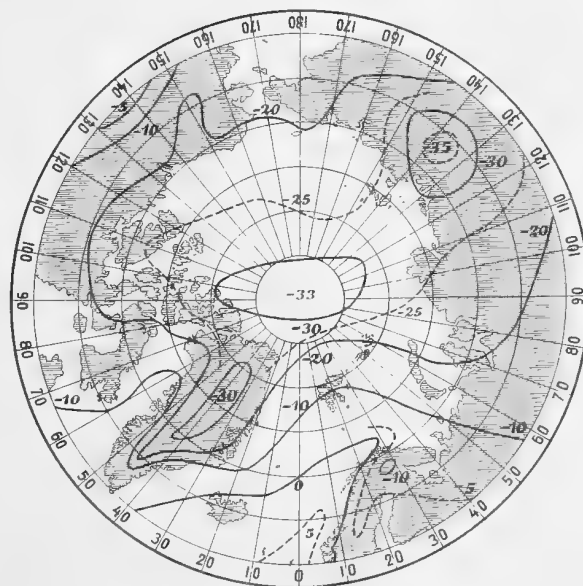
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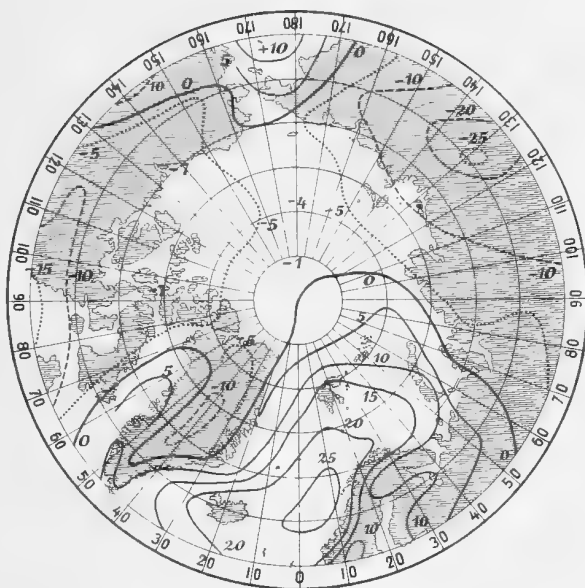


H. Mohn 1904.



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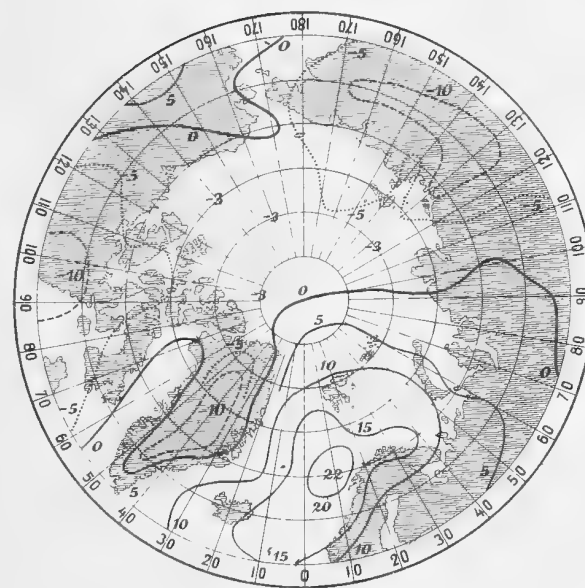
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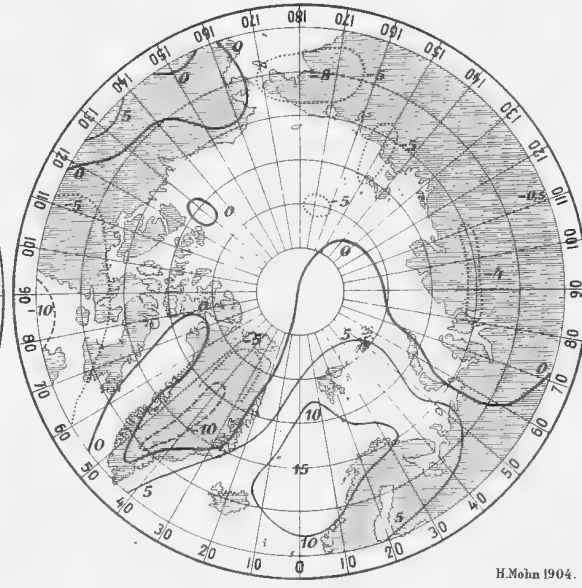
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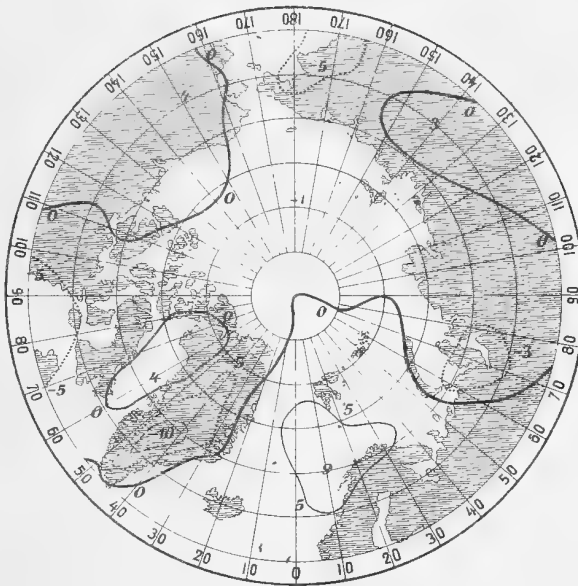


H. Mohn 1904.

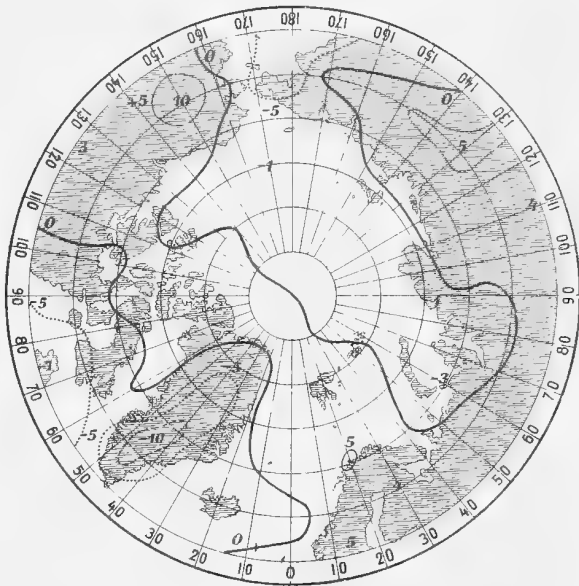


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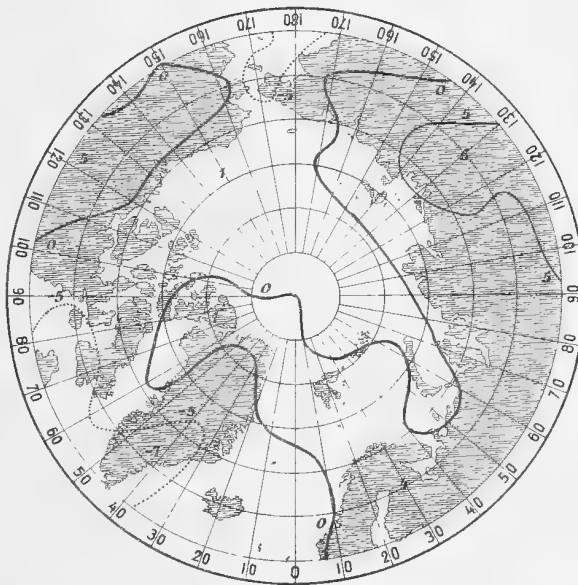
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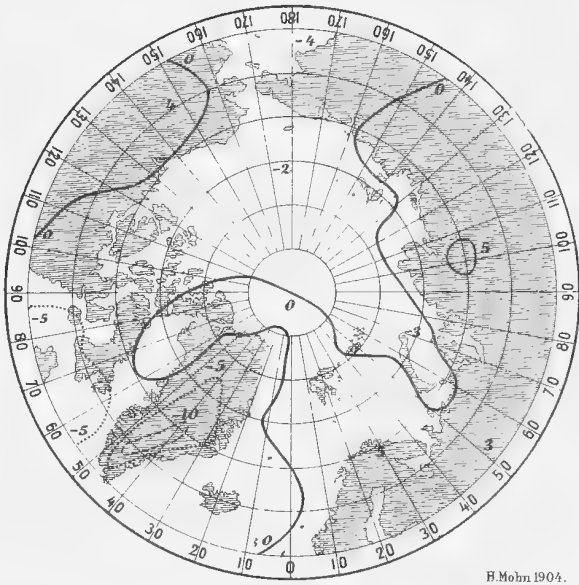
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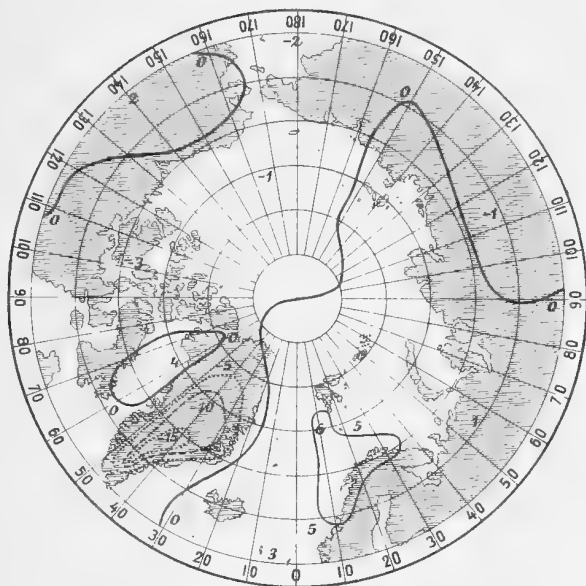
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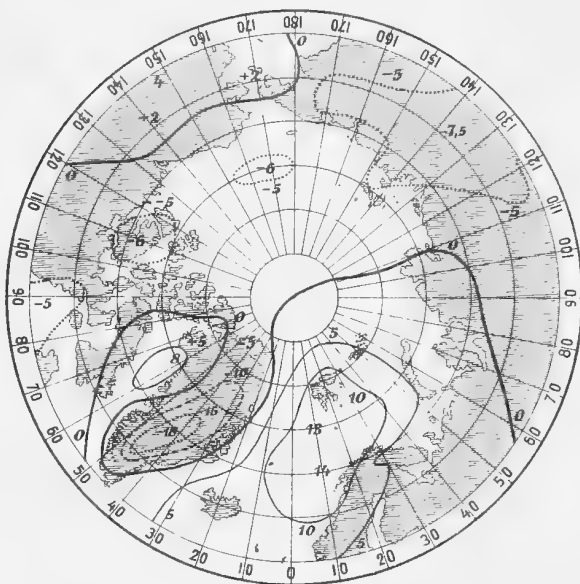


# Isabnormal Lines

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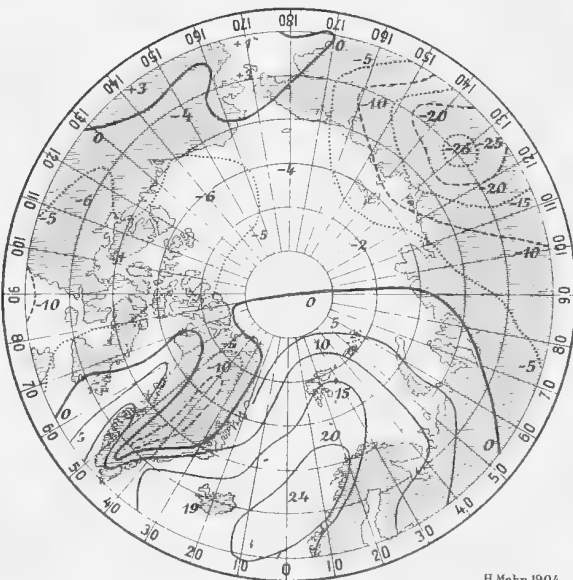
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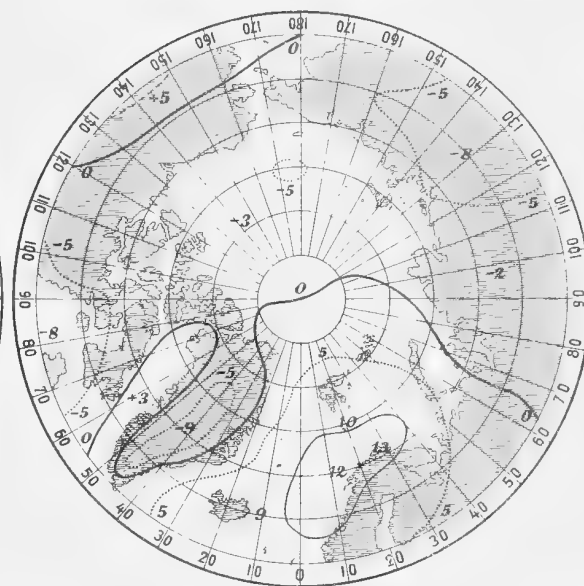
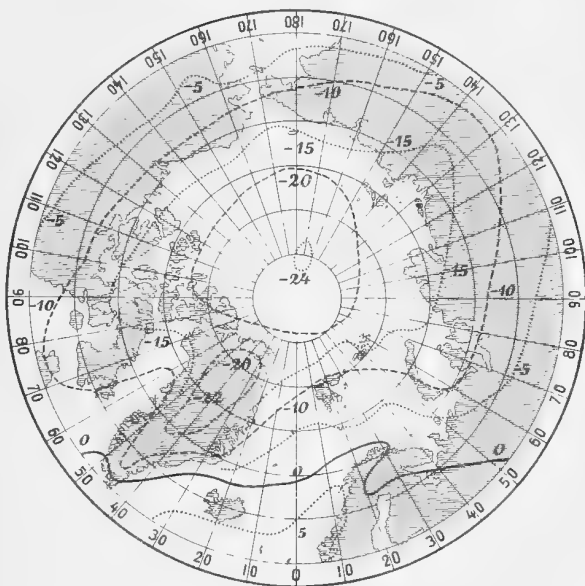
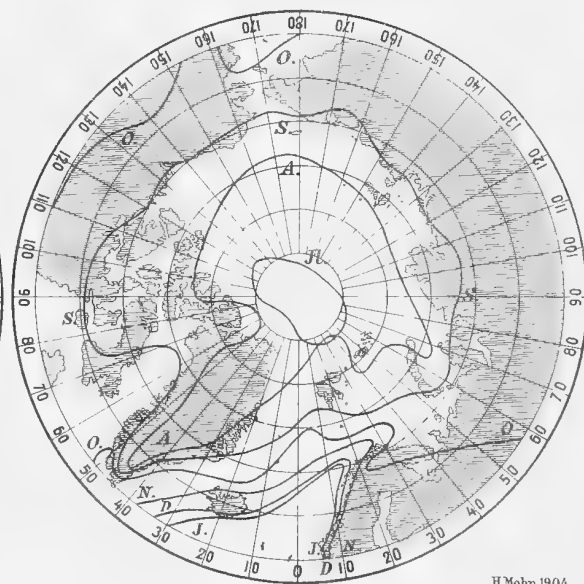
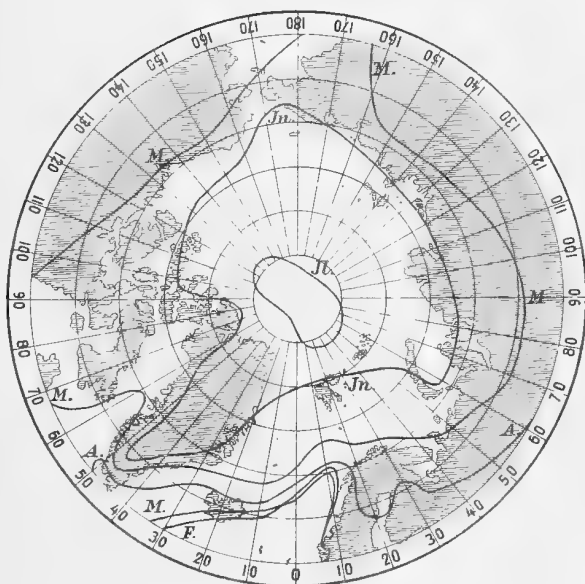
*December*



H. Mohn 1904.



Isabnormal Lines.Year.

Annual Migration of the Isotherm of  $0^{\circ}$ 

H. Mohn 1904.









